

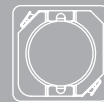
Inductors/Coils EMI Suppression Filters

Products Catalog



RoHS
Compliant

品質•專業•創新



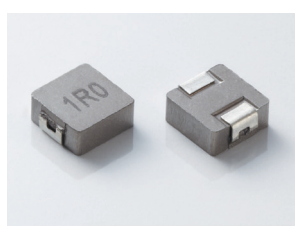
High Current Power Inductors



AMPI_EC Series

201610/252010/252012

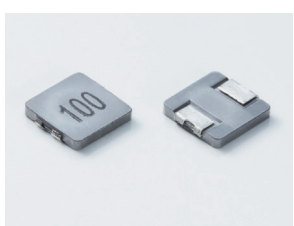
P1



AMPI_ED Series

0420/0530/0612/0618/
0624/0630/1040

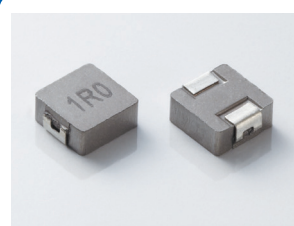
P2-P3



AMPI_ECH Series

0410/0610

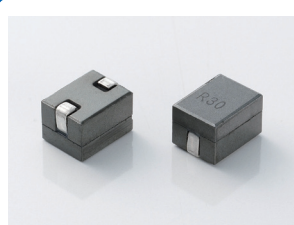
P4



AMPI_EL_A Series

0420/0603/1265

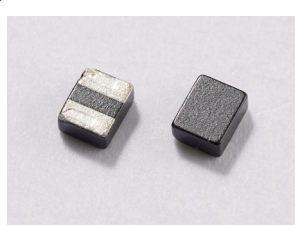
P5



AHCI Series

0906/1007/1008/1107

P6-P7



APIM Series

121065~201212/
201655~322520/
0310~0430

P8-P15

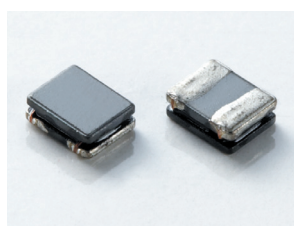


AMPI_GD Series

0418~1280/
060750~737640

P16-P18

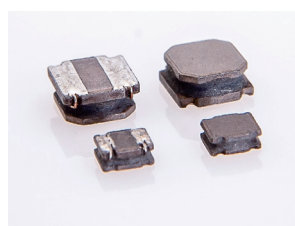
SMD Power Inductors



AQH_MK Series

201610/252010/252012

P19-P20



AHNH Series

201610/252010/252012/
3012/3015/4020

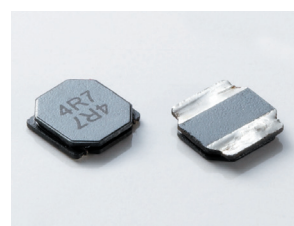
P21-P24



ATNR Series

3010/4010/4018/5012/6012/
6020/8040/5D20/6D28/
7D15

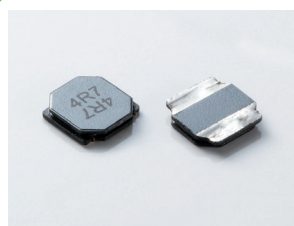
P25-P27



ATNR_M Series

3010/3012/3015/4010/4012/
4018/4030/5040/6020/6045/
8040

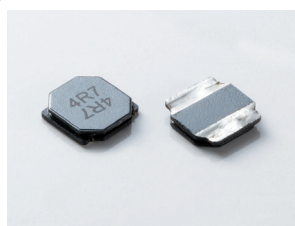
P28-P30



ATNR_MH Series

3010/3012/4010/4012/4018/
5020/6028

P31-P32



ATNR_MA Series

3010/3015/4012/4018/5020/
5040/6020/6028/6045/8040

P33-P35



AGPI Series

3D16/4D18/4D28/5012/
5D18/5D28/6012/6D28/
6D38/7D15/7D18/7D25/
7D28/8D43/10D15/10D25

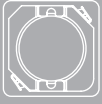
P36-P40



ATPI Series

0302/0403/0504/0703/
0705/1005

P41-P43



Product Index

SMD Power Inductors



ATPI_HF Series

0315/0302/0403/0504/
0703/0705/1006

P44-P47



AFPI Series

1003/1004/1005

P48-P49



ASPI Series

0703/0704/1204/1205/
1207

P50-P52



ASPI_WE Series

0603/0605/0703/0704/
1204/1205/1207/1209

P53-P56



APIW Series

3308/3316/3340/5022

P57-P58



APIR Series

3316/5022

P59

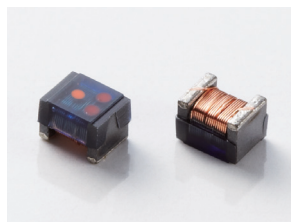
RF Inductors



AOI Series

1005/1608/2012/2520/3225

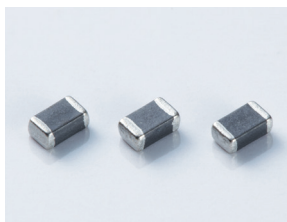
P60-P67



AOIC Series

1610/2012/2520/3225

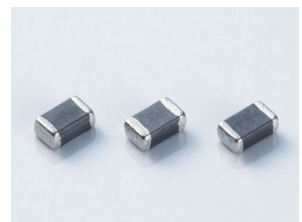
P68-P70



AIGC Series

160808/201210/201610/
252010/252012

P71-P73



AIG Series

1608/2012

P74-P75



AIF_L Series

1005/1608

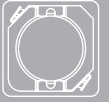
P76-P77



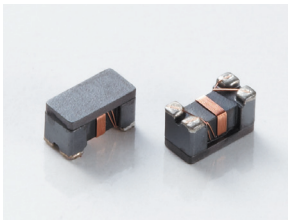
AIF_H Series

0603/1005/1608

P78-P80



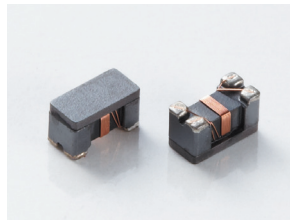
EMI Suppression Filters



ATCM Series

2012/3216

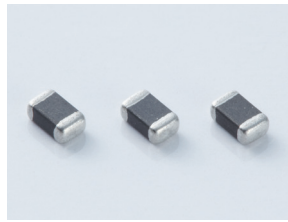
P81-P82



ATCM_HDMI Series

2012

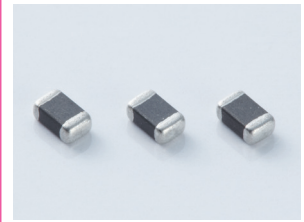
P83



AMB Series

1005/1608/2012

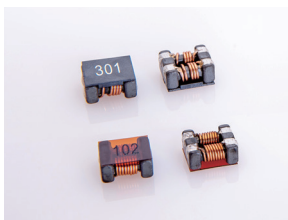
P84-P87



AMC Series

1005/1608/2012

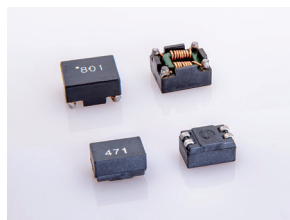
P88-P89



ALCM Series

050520/070640/090750/
090770/121190/131160/
151360

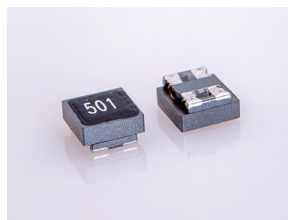
P90-P92



ARCM Series

090650/100850

P93-P94



AXCM Series

050530/050550

P95

DIP Power Inductors



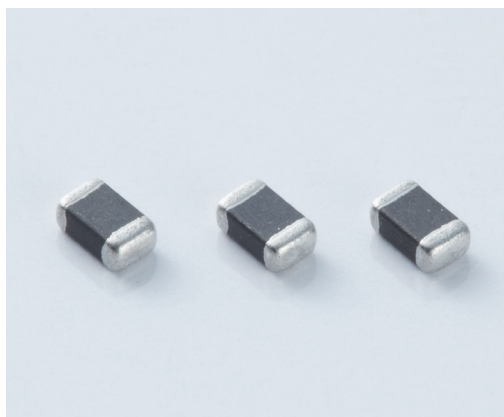
ADR Series

0406/0608/0810/0912

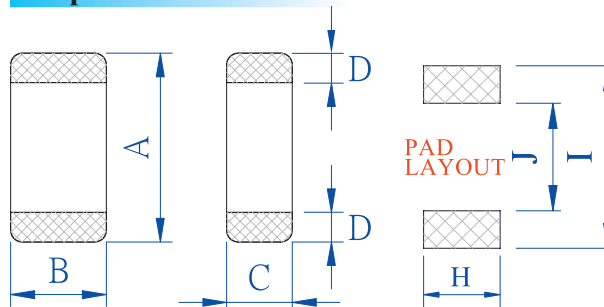
P96-P97



High Current Power Inductors AMPI_EC Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AMPI201610EC	2.0±0.25	1.6±0.25	1.0 MAX.	0.5±0.3	1.8	0.80	0.8
AMPI252010EC	2.5±0.2	2.0±0.2	1.0 MAX.	0.6±0.2	2.0	0.80	1.2
AMPI252012EC	2.5±0.2	2.0±0.2	1.2 MAX.	0.6±0.2	2.0	0.80	1.2

Features

- High magnetic flux saturation density characteristics by metal magnetic material.
- Low DC resistance by flat wire and achieve high conversion efficiency and lower temperature rising.
- Magnetically shielded structure to accomplish high resolution in EMC protection.
- High mounting stability due to Chip shape.
- High reliability by original structure.
- Halogen free, Lead free, RoHS Compliance.

Applications

- DC/DC converter.
- Smartphone/PAD, HDD/SSD, DVC/DSC.
- Mobile display panels, portable game devices, compact power supply modules, other.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AMPI	201610 252010/252012	EC△ Type Code	R47 0.47 2R2 2.2	M ±20% N ±25%	T Taping reel B Bulk	"A~Z"

Specification

AMPI201610EC Series Specification

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI201610EC1R0 □ T	1.0	1.0	78.0	4.00	2.50
AMPI201610EC1R5 □ T	1.5	1.0	99.0	3.10	2.30
AMPI201610EC2R2 □ T	2.2	1.0	144.0	2.30	2.00

AMPI252010EC Series Specification

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI252010ECR33 □ T	0.33	1.0	27.0	7.40	4.90
AMPI252010ECR47 □ T	0.47	1.0	31.0	6.20	4.60
AMPI252010EC1R0 □ T	1.0	1.0	50.0	4.30	3.80
AMPI252010EC1R5 □ T	1.5	1.0	76.0	3.60	2.80
AMPI252010EC2R2 □ T	2.2	1.0	110.0	2.80	2.50
AMPI252010EC3R3 □ T	3.3	1.0	193.0	2.30	1.60
AMPI252010EC4R7 □ T	4.7	1.0	260.0	2.00	1.45

AMPI252012EC Series Specification

Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI252012ECR33 □ T	0.33	1.0	24.0	8.00	5.50
AMPI252012ECR47 □ T	0.47	1.0	23.0	6.60	5.60
AMPI252012ECR68 □ T	0.68	1.0	28.0	5.70	5.50
AMPI252012EC1R0 □ T	1.0	1.0	44.0	5.30	4.00
AMPI252012EC1R5 □ T	1.5	1.0	66.0	4.60	3.10
AMPI252012EC2R2 □ T	2.2	1.0	89.0	3.40	2.70
AMPI252012EC3R3 □ T	3.3	1.0	157.0	2.70	2.10
AMPI252012EC4R7 □ T	4.7	1.0	195.0	2.30	1.75
AMPI252012EC6R8 □ T	6.8	1.0	340.0	2.05	1.40
AMPI252012EC100 □ T	10.0	1.0	530.0	1.60	1.10

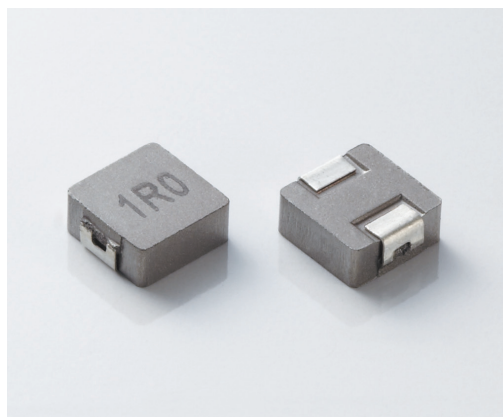
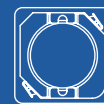
NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop approximately 30% from its value without current.

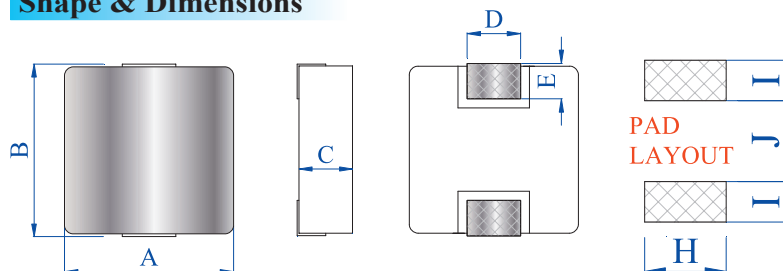
- □ Tolerance M: ±20%

- Irms: Typical Heat Rating D.C current would cause an approximately Δ T of 40°C.

High Current Power Inductors AMPI_ED Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AMPI0420ED	4.1±0.2	4.6±0.2	2.0 MAX.	1.5±0.3	1.0±0.5	2.5	1.50	2.2
AMPI0530ED	5.2±0.2	5.4±0.3	2.8±0.2	2.2±0.3	1.2±0.2	2.5	1.90	2.2
AMPI0612ED	6.6±0.2	7.1±0.2	1.0±0.2	2.9±0.1	1.8±0.3	3.43	1.83	3.71
AMPI0618ED	6.6±0.2	7.1±0.3	1.6±0.2	3.0±0.3	1.6±0.5	3.5	2.35	3.7
AMPI0624ED	6.6±0.2	7.1±0.3	2.4 MAX.	3.0±0.3	1.6±0.5	3.5	2.35	3.7
AMPI0630ED	6.6±0.2	7.1±0.3	3.0 MAX.	3.0±0.3	1.6±0.5	3.5	2.35	3.7
AMPI1040ED	10.0±0.3	11.5 MAX.	3.8±0.2	3.0±0.5	2.0±0.5	4.1	4.10	5.4

Features

- High performance realized by metal core.
- Compact and low profile with max. 3.0 mm.
- Low loss realized with low DCR and high Isat.
- Applicable at high frequency up to 750 KHz.
- Magnetically shielded.
- RoHS compliant.

Applications

- DC/DC converter for CPU in Notebook PC.
- Thin type on-board power supply module for exchanger VRM for server.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AMPI	0420 0530 0612/0618/0624/0630 1040	ED△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25%	T Taping reel B Bulk	"A~Z"

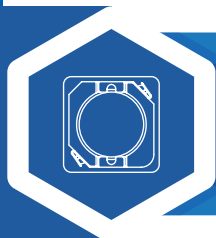
Specification

AMPI0420ED Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0420EDR10 □ T	0.10	100	4.0	27.0	13.0
AMPI0420EDR22 □ T	0.22	100	6.6	21.0	9.5
AMPI0420EDR47 □ T	0.47	100	14.0	11.0	7.5
AMPI0420EDR56 □ T	0.56	100	16.0	11.0	7.0
AMPI0420EDR68 □ T	0.68	100	18.0	8.6	7.0
AMPI0420ED1R0 □ T	1.0	100	27.0	7.0	4.5
AMPI0420ED1R2 □ T	1.2	100	27.0	6.5	4.5
AMPI0420ED1R5 □ T	1.5	100	46.0	6.0	4.0
AMPI0420ED2R2 □ T	2.2	100	58.0	5.0	3.0
AMPI0420ED3R3 □ T	3.3	100	87.0	4.0	2.5
AMPI0420ED4R7 □ T	4.7	100	105.0	3.0	2.2
AMPI0420ED6R8 □ T	6.8	100	135.0	3.0	2.0
AMPI0420ED100 □ T	10	100	258.0	2.0	1.6
AMPI0530ED Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0530EDR20 □ T	0.20	100	3.9	17.0	14.0
AMPI0530EDR47 □ T	0.47	100	8.0	15.0	11.0
AMPI0530EDR68 □ T	0.68	100	12.0	13.0	9.0
AMPI0530ED1R0 □ T	1.0	100	14.0	11.0	8.1
AMPI0530ED1R2 □ T	1.2	100	16.0	11.0	8.1
AMPI0530ED1R5 □ T	1.5	100	25.0	10.0	7.2
AMPI0530ED2R2 □ T	2.2	100	29.0	7.5	5.5
AMPI0530ED3R3 □ T	3.3	100	38.0	6.0	4.8
AMPI0530ED4R7 □ T	4.7	100	60.0	5.0	4.5
AMPI0530ED6R8 □ T	6.8	100	90.0	4.0	3.5
AMPI0530ED100 □ T	10	100	125.0	3.5	2.5

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop approximately 30% from its value without current.

- □ Tolerance M: ±20%
- Irms: Typical Heat Rating D.C current would cause an approximately Δ T of 40°C.



High Current Power Inductors

AMPI_ED Series

Specification

AMPI0612ED Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0612EDR56 □ T	0.56	100	15.5	11.0	8.0
AMPI0612EDR68 □ T	0.68	100	17.5	9.0	7.0
AMPI0612ED1R0 □ T	1.0	100	29.0	7.5	6.0
AMPI0612ED2R2 □ T	2.2	100	58.0	5.0	4.0
AMPI0612ED3R3 □ T	3.3	100	92.0	4.0	3.5
AMPI0612ED4R7 □ T	4.7	100	122.0	3.5	2.8
AMPI0612ED6R8 □ T	6.8	100	210.0	2.8	2.1
AMPI0612ED100 □ T	10	100	280.0	2.2	2.0

AMPI0618ED Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0618EDR68 □ T	0.68	100	12.7	17.0	9.0
AMPI0618ED1R0 □ T	1.0	100	17.0	14.0	7.0
AMPI0618ED1R5 □ T	1.5	100	26.0	12.0	6.5
AMPI0618ED2R2 □ T	2.2	100	35.0	8.0	5.0
AMPI0618ED3R3 □ T	3.3	100	60.0	8.0	3.5
AMPI0618ED4R7 □ T	4.7	100	70.0	5.0	3.5
AMPI0618ED6R8 □ T	6.8	100	110.0	4.0	2.8
AMPI0618ED6R8 □ TA	6.8	100	110.0	4.5	2.8
AMPI0618ED100 □ T	10	100	155.0	2.5	2.3

AMPI0624ED Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0624EDR22 □ T	0.22	100	3.0	34.0	21.0
AMPI0624EDR33 □ T	0.33	100	4.1	26.0	18.0
AMPI0624EDR47 □ T	0.47	100	5.1	22.0	15.0
AMPI0624EDR56 □ T	0.56	100	6.5	17.0	13.0
AMPI0624EDR68 □ T	0.68	100	7.0	16.0	12.0
AMPI0624ED1R0 □ T	1.0	100	13.5	16.0	9.0
AMPI0624ED1R5 □ T	1.5	100	20.0	15.0	9.0
AMPI0624ED2R2 □ T	2.2	100	28.0	12.0	7.0
AMPI0624ED3R3 □ T	3.3	100	39.0	8.5	5.5
AMPI0624ED4R7 □ T	4.7	100	50.0	7.5	5.0
AMPI0624ED6R8 □ T	6.8	100	65.0	6.0	4.0
AMPI0624ED100 □ T	10	100	101.0	5.0	3.1
AMPI0624ED150 □ T	15	100	160.0	3.3	2.5

AMPI0630ED Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0630EDR22 □ T	0.22	100	3.0	42.0	24.0
AMPI0630EDR24 □ T	0.24	100	3.1	31.0	23.0
AMPI0630EDR33 □ T	0.33	100	3.5	30.0	21.0
AMPI0630EDR47 □ T	0.47	100	4.1	20.0	18.0
AMPI0630EDR56 □ T	0.56	100	4.5	18.0	16.5
AMPI0630EDR68 □ T	0.68	100	5.3	17.0	16.0
AMPI0630EDR82 □ T	0.82	100	6.0	17.0	14.0
AMPI0630ED1R0 □ T	1.0	100	7.4	15.0	12.0
AMPI0630ED1R5 □ T	1.5	100	12.1	14.0	10.0
AMPI0630ED2R2 □ T	2.2	100	15.0	10.0	8.0
AMPI0630ED3R3 □ T	3.3	100	22.0	9.5	6.5
AMPI0630ED4R7 □ T	4.7	100	33.0	6.5	5.5
AMPI0630ED6R8 □ T	6.8	100	50.0	6.0	4.5
AMPI0630ED8R2 □ T	8.2	100	60.0	6.0	4.2
AMPI0630ED100 □ T	10	100	68.0	5.5	4.0
AMPI0630ED150 □ T	15	100	115.0	4.5	3.0
AMPI0630ED220 □ T	22	100	200.0	3.0	2.3
AMPI0630ED330 □ T	33	100	310.0	3.0	2.0

AMPI1040ED Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI1040EDR47 □ T	0.47	100	1.7	40.0	30.0
AMPI1040EDR56 □ T	0.56	100	1.8	33.0	25.0
AMPI1040EDR68 □ T	0.68	100	2.4	30.0	23.0
AMPI1040ED1R0 □ T	1.0	100	3.3	28.0	19.0
AMPI1040ED1R5 □ T	1.5	100	4.2	26.0	16.0
AMPI1040ED2R2 □ T	2.2	100	7.0	18.0	12.0
AMPI1040ED3R3 □ T	3.3	100	11.8	16.0	11.0
AMPI1040ED4R7 □ T	4.7	100	20.0	15.5	9.0
AMPI1040ED6R8 □ T	6.8	100	25.0	12.0	8.5
AMPI1040ED8R2 □ T	8.2	100	27.0	9.0	8.0
AMPI1040ED100 □ T	10	100	30.0	8.5	7.8
AMPI1040ED150 □ T	15	100	45.0	7.0	6.5
AMPI1040ED220 □ T	22	100	66.0	5.5	5.0
AMPI1040ED330 □ T	33	100	92.0	5.5	4.4
AMPI1040ED470 □ T	47	100	145.0	3.5	3.3
AMPI1040ED680 □ T	68	100	195.0	3.0	2.5

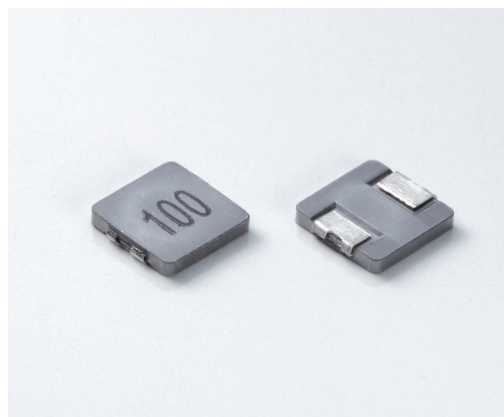
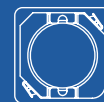
NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop approximately 30% from its value without current.

- □ Tolerance M: ±20%

- Irms: Typical Heat Rating D.C current would cause an approximately Δ T of 40°C .

High Current Power Inductors AMPI_ECH Series



Shape & Dimensions

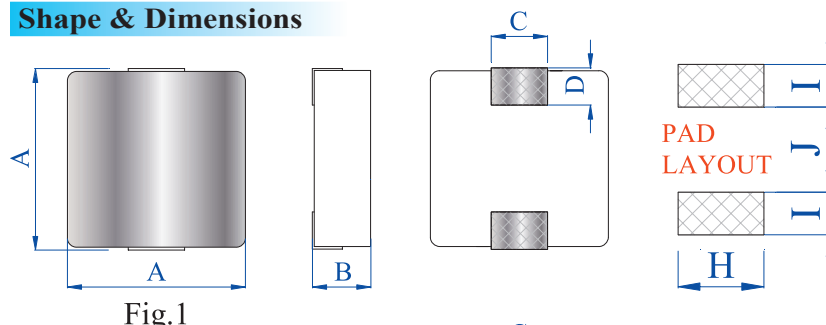


Fig.1

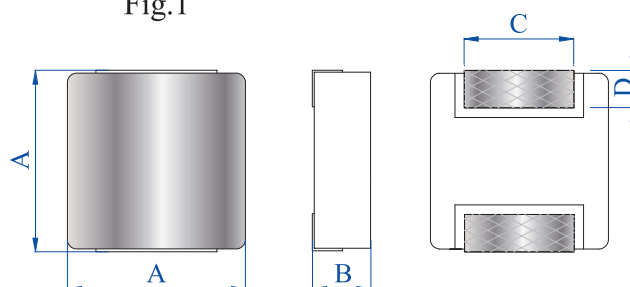


Fig.2

Features

- High performance realized by metal core.
- Compact and low profile with max. 3.0 mm.
- Low loss realized with low DCR and high Isat.
- Applicable at high frequency up to 750 KHz.
- RoHS compliant.

TYPE	Figure	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AMPI0410ECH	1	4.0±0.2	0.8±0.2	1.8±0.2	0.8±0.2	2.0	1.1	2.2
AMPI0610ECH	2	6.1±0.3	0.8±0.2	4.0±0.3	1.75±0.3	4.5	2.35	2.8

Applications

- DC/DC converter for CPU in Notebook PC.
- Thin type on-board power supply module for exchanger VRM for server.

Product Identification

①	②	③	④	⑤	⑥	⑦
AMPI	0410△△	△△△	100	M	T	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AMPI	0410	ECH Type Code	2R2 2.2	M ±20%	T Taping reel	"A~Z"
	0610		100 10	N ±25%	B Bulk	

Specification

AMPI0410ECH Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0410ECH2R2 □ T	2.2	100	100.0	3.5	3.0
AMPI0410ECH4R7 □ T	4.7	100	160.0	2.6	2.3
AMPI0410ECH100 □ T	10	100	285±20%	1.6	1.4
AMPI0610ECH Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0610ECH6R8 □ T	6.8	100	197.0	2.5	2.0
AMPI0610ECH100 □ T	10	100	310.0	2.1	1.6

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop approximately 30% from its value without current.

- □ Tolerance M: ±20%
- Irms: Typical Heat Rating D.C current would cause an approximately Δ T of 40°C.

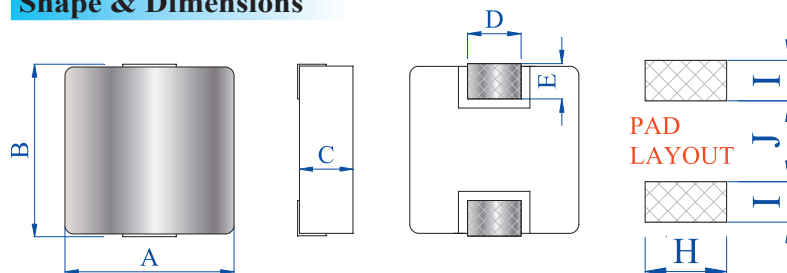


High Current Power Inductors

AMPI_EL_A Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AMPI0420EL	4.1±0.2	4.6±0.2	2.0 MAX.	1.5±0.3	1.0±0.5	2.5	1.50	2.2
AMPI0603EL	6.6±0.2	7.1±0.3	3.0 MAX.	3.0±0.3	1.6±0.5	3.5	2.35	3.7
AMPI1265EL	12.8±0.5	13.5±1.0	6.5 MAX.	3.8 REF.	2.5 REF.	5.0	4.50	6.0

Features

- SMD.
- Molding Inductor.
- Low Profile, Low Temp.
- Large Current (Over 15 A).
- Customize For Different Need.

Applications

- General Electronic.
- Video Device, TV, TFT.
- Power Module for PC.
- NB/Lap Top Computer.
- Server, VGA Card/Module.

Product Identification

①	②	③	④	⑤	⑥	⑦
AMPI	0603△△	△△△	100	M	T	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AMPI	0420	EL△ Type Code	2R2 2.2	M ±20%	T Taping reel	"A~Z"
	0603		100 10	N ±25%	B Bulk	
	1265		220 22			

Specification

AMPI0420EL Series Specification					
Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0420ELR22 □ TA	0.22	1.0	5.5	18.0	10.0
AMPI0420EL1R0 □ TA	1.0	1.0	17.0	8.0	5.5
AMPI0420EL1R5 □ TA	1.5	1.0	46.0	7.5	3.3
AMPI0420EL2R2 □ TA	2.2	1.0	38.5	6.0	4.0
AMPI0420EL4R7 □ TA	4.7	1.0	85.0	4.0	2.5

AMPI0603EL Series Specification					
Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI0603ELR47 □ TA	0.47	1.0	4.2	26.0	17.5
AMPI0603ELR68 □ TA	0.68	1.0	5.5	25.0	15.5
AMPI0603EL1R0 □ TA	1.0	1.0	8.4	22.0	12.0
AMPI0603EL1R5 □ TA	1.5	1.0	15.0	18.0	9.0
AMPI0603EL2R2 □ TA	2.2	1.0	16.4	14.0	8.0
AMPI0603EL3R3 □ TA	3.3	1.0	30.0	13.5	6.0
AMPI0603EL4R7 □ TA	4.7	1.0	40.0	10.0	5.5
AMPI0603EL6R8 □ TA	6.8	1.0	60.0	8.5	4.8
AMPI0603EL8R2 □ TA	8.2	1.0	68.0	7.0	4.0
AMPI0603EL100 □ TA	10	1.0	105.0	7.0	3.0
AMPI0603EL220 □ TA	22	1.0	125.0	3.0	2.9

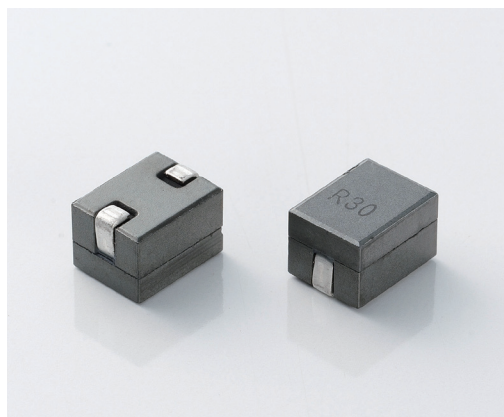
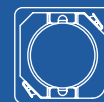
AMPI1265EL Series Specification					
Part Number	Inductance (uH)	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise Current (A) Typ.
AMPI1265EL4R7 □ TA	4.7	1.0	11.20	30.0	13.5
AMPI1265EL6R8 □ TA	6.8	1.0	14.00	17.5	11.5
AMPI1265EL8R2 □ TA	8.2	1.0	15.50	16.0	10.5
AMPI1265EL100 □ TA	10	1.0	16.80	15.5	10.0
AMPI1265EL150 □ TA	15	1.0	29.00	9.0	6.0
AMPI1265EL220 □ TA	22	1.0	39.50	7.5	5.0
AMPI1265EL330 □ TA	33	1.0	65.00	6.0	5.0
AMPI1265EL470 □ TA	47	1.0	92.00	5.0	4.0
AMPI1265EL680 □ TA	68	1.0	134.00	3.5	2.0

NOTE:

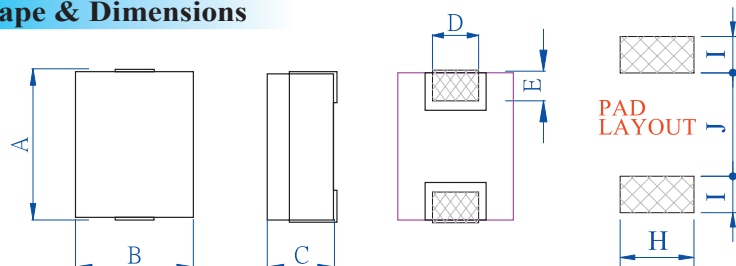
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop approximately 30% from its value without current.

- □ Tolerance M: ±20%
- Irms: Typical Heat Rating D.C current would cause an approximately Δ T of 40°C.

High Current Power Inductors AHCI Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AHCI0906RX	9.4±0.3	6.2±0.3	7.8±0.3	2.0±0.2	1.8 ± 0.2	2.54	3.20	4.00
AHCI1007RX	10.7 MAX.	8.0 MAX.	7.2 MAX.	2.2 ± 0.2	2.54 ± 0.3	2.60	3.00	5.00
AHCI1008RX	10.2 MAX.	8.0 MAX.	8.0 MAX.	2.2 ± 0.25	2.5 ± 0.25	3.00	3.56	4.06
AHCI1107RX	11.2 MAX.	7.0 ± 0.3	R1=7.6 MAX. R2=7.4 MAX.	1.6 ± 0.3	2.7 ± 0.3	2.60	3.10	5.00

Features

- Ferrite core material, High current carrying capacity.
- Low core losses.
- Controlled DCR tolerance for sensing circuits.
- Inductance rang from 72 nH to 220 nH.
- Current rang from 20 to 65 Amps, frequency ran to 2 MHz.
- RoHS compliant.

Applications

- Portable electronics.
- Servers and workstations.
- Data networking and storage systems.
- Notebook and desktop computers.
- Graphics cards and battery power systems.
- Multi-phase regulators.
- Voltage Regulator Module (VRM).
- DCR sensing.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (nH)	Tolerance	Package	Special product
AHCI	0906 1007/1008 1107	R1△ R2△ Type Code	R15 150 R30 300 R47 470	K ±10%	T Taping reel B Bulk	"A~Z"

Specification

AHCI0906RX Series Specification								
Part Number	L1 (nH) ±10%	L2 @Isat1 (nH) Min.	Test Freq. (KHz)	DCR (mΩ)	Isat 1 (A) Typ.	Isat 2 (A) Typ.	Irms (A) Typ.	
AHCI0906R1-R10 □ T	100	72	100	0.29±5%	94	81	51	
AHCI0906R1-R12 □ T	120	86	100	0.29±5%	79	68	51	
AHCI0906R1-R15 □ T	150	108	100	0.29±5%	65	54.5	51	
AHCI0906R1-R22 □ T	220	155	100	0.29±5%	44	37.5	51	
AHCI0906R1-R28 □ T	280	200	100	0.29±5%	34	29	51	
AHCI0906R1-R30 □ T	300	216	100	0.29±5%	32.5	27.5	51	

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat1: Peak current for approximately 20% rolloff at 25°C.
- Irms: D.C current for an approximate temperature rise of 40°C without core loss.

- □ Tolerance K: ±10% L: ±15%
- Isat2: Peak current for approximately 20% rolloff at 125°C.



High Current Power Inductors

AHCI Series

Specification

AHCI1007RX Series Specification

Part Number	L1 (nH) $\pm 10\%$	L2 @Isat1 (nH) Min.	Test Freq. (KHz)	DCR (m Ω)	Isat 1 (A) Typ.	Isat 2 (A) Typ.	Irms (A) Typ.
AHCI1007R1-R12 □ T	115	83	100	0.29 $\pm 5\%$	94	86	61
AHCI1007R1-R15 □ T	150	108	100	0.29 $\pm 5\%$	75	60	61
AHCI1007R1-R18 □ T	180	129	100	0.29 $\pm 5\%$	60	50	61
AHCI1007R1-R22 □ T	220	158	100	0.29 $\pm 5\%$	50	40	61
AHCI1007R1-R27 □ T	270	194	100	0.29 $\pm 5\%$	41	33	61
AHCI1007R1-R30 □ T	300	216	100	0.29 $\pm 5\%$	35	30	61
AHCI1007R1-R33 □ T	330	237	100	0.29 $\pm 5\%$	33	26.5	61
AHCI1007R1-R39 □ T	390	280	100	0.29 $\pm 5\%$	28	22.5	61
AHCI1007R1-R47 □ T	470	338	100	0.29 $\pm 5\%$	23.5	19	61

AHCI1008RX Series Specification

Part Number	L1 (nH) $\pm 10\%$	L2 @Isat1 (nH) Min.	Test Freq. (KHz)	DCR (m Ω)	Isat 1 (A) Typ.	Isat 2 (A) Typ.	Irms (A) Typ.
AHCI1008R1-R12 □ T	120	86.4	100	0.18 $\pm 5\%$	95	84	68
AHCI1008R1-R15 □ T	150	108	100	0.18 $\pm 5\%$	79	70	68
AHCI1008R1-R18 □ T	180	129.6	100	0.18 $\pm 5\%$	62	56	68
AHCI1008R1-R22 □ T	220	158.4	100	0.18 $\pm 5\%$	58	51	68

AHCI1107RX Series Specification

Part Number	L1 (nH) $\pm 10\%$	L2 @Isat1 (nH) Min.	Test Freq. (KHz)	DCR (m Ω)	Isat 1 (A) Typ.	Isat 2 (A) Typ.	Irms (A) Typ.
AHCI1107R1-R12 □ T	120	86	100	0.29 $\pm 5\%$	90	72	55
AHCI1107R1-R15 □ T	150	108	100	0.29 $\pm 5\%$	70	56	55
AHCI1107R1-R23 □ T	230	166	100	0.29 $\pm 5\%$	45	36	55
AHCI1107R1-R30 □ T	300	217	100	0.29 $\pm 5\%$	35	28	55
AHCI1107R1-R40 □ T	400	288	100	0.29 $\pm 5\%$	25	20	55
AHCI1107R1-R51 □ T	510	364	100	0.29 $\pm 5\%$	18	14.5	55
AHCI1107R2-R12 □ T	120	86	100	0.47 $\pm 6\%$	90	72	42
AHCI1107R2-R15 □ T	150	108	100	0.47 $\pm 6\%$	70	56	42
AHCI1107R2-R23 □ T	230	166	100	0.47 $\pm 6\%$	45	36	42
AHCI1107R2-R30 □ T	300	217	100	0.47 $\pm 6\%$	35	28	42
AHCI1107R2-R40 □ T	400	288	100	0.47 $\pm 6\%$	25	20	42
AHCI1107R2-R51 □ T	510	364	100	0.47 $\pm 6\%$	18	14.5	42

NOTE:

● The operating temperature range is -40°C to +125°C (Including self-temperature rise).

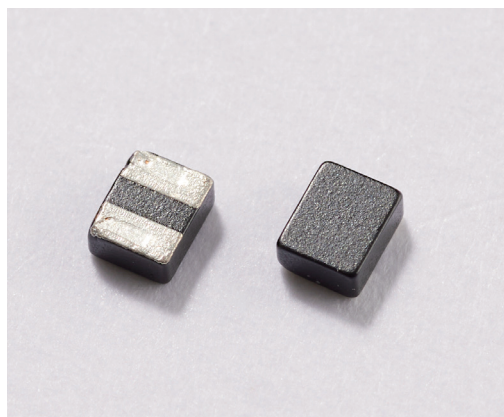
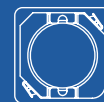
● Isat1: Peak current for approximately 20% rolloff at 25°C .

● Irms: D.C current for an approximate temperature rise of 40°C without core loss.

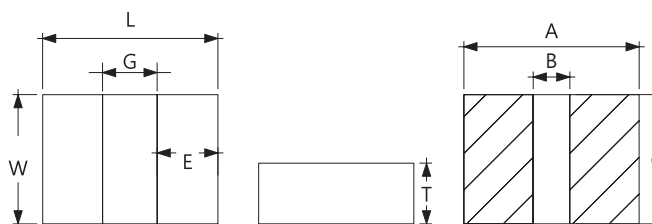
● □ Tolerance K : $\pm 10\%$ L : $\pm 15\%$

● Isat2: Peak current for approximately 20% rolloff at 125°C .

High Current Power Inductors APIM Series



Shape & Dimensions



Features

- Metal material for large current and low loss.
- High performance (Isat) realized by metal dust core.
- Low loss realized with low Rdc.
- Closed magnetic circuit design reduces leakage flux.
- 100% lead (Pb) free meet RoHS2.0 and Halogen, Reach and other legal and regulatory requirements standard.

Applications

- DC/DC converters.
- Pad, Smart phone.
- Portable gaming devices, Smart wear, Wi-Fi module.
- Notebooks, VR, AR.
- LCD displays, HDDs, DVCs, DSCs, etc.
- Baseband power supply, Amplifier, Power management, Module power supply, Camera power manageme.

Series	L	G	W	E	T	A	B	C
APIM121065S	1.2±0.2	0.4±0.2	1.0±0.2	0.40±0.2	0.65Max.	1.30	0.30	1.10
APIM160865S	1.6±0.2	0.6±0.2	0.8±0.2	0.50±0.2	0.65Max.	1.60	0.50	0.80
APIM160808S	1.6±0.2	0.6±0.2	0.8±0.2	0.50±0.2	0.80Max.	1.70	0.50	0.90
APIM141265S	1.4±0.2	0.5±0.2	1.2±0.2	0.45±0.2	0.65Max.	1.50	0.40	1.30
APIM141207S	1.4±0.2	0.5±0.2	1.2±0.2	0.45±0.2	0.70Max.	1.50	0.40	1.30
APIM141208S	1.4±0.2	0.5±0.2	1.2±0.2	0.45±0.2	0.80Max.	1.50	0.40	1.30
APIM201265S	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	0.65Max.	2.10	0.50	1.30
APIM201208S	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	0.80Max.	2.10	0.50	1.30
APIM201210S	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	1.00Max.	2.10	0.50	1.30
APIM201212S	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	1.20Max.	2.10	0.50	1.30
APIM201655S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.55Max.	2.10	0.50	1.70
APIM201665S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.65Max.	2.10	0.50	1.70
APIM201607S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.70Max.	2.10	0.50	1.70
APIM201608S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.80Max.	2.10	0.50	1.70
APIM201610S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	1.00Max.	2.10	0.50	1.70
APIM201612S	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	1.20Max.	2.10	0.50	1.70
APIM252055S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	0.55Max.	2.60	0.70	2.10
APIM252075S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	0.75Max.	2.60	0.70	2.10
APIM252008S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	0.80Max.	2.60	0.70	2.10
APIM252010S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	1.00Max.	2.60	0.70	2.10
APIM252012S	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	1.20Max.	2.60	0.70	2.10
APIM322510S	3.2±0.2	1.0±0.2	2.5±0.2	1.05±0.2	1.00Max.	3.20	0.90	2.50
APIM322512S	3.2±0.2	1.0±0.2	2.5±0.2	1.05±0.2	1.20Max.	3.20	0.90	2.50
APIM322520S	3.2±0.2	1.0±0.2	2.5±0.2	1.05±0.2	2.00Max.	3.20	0.90	2.50
APIM0310D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.00Max.	3.00	0.80	3.00
APIM0312D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.20Max.	3.00	0.80	3.00
APIM0315D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.50Max.	3.00	0.80	3.00
APIM0318D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.80Max.	3.00	0.80	3.00
APIM0320D	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	2.00Max.	3.00	0.80	3.00
APIM0410S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	1.00Max.	4.10	1.10	4.10
APIM0412S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	1.20Max.	4.10	1.10	4.10
APIM0420S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	2.00Max.	4.10	1.10	4.10
APIM0430S	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	3.00Max.	4.10	1.10	4.10

Product Identification

APIM	201610	△	△	2R2	M	T	△
①	②	③	④	⑤	⑥	⑦	⑧
Product	Dimension	Size Tolerance	Coating color	Inductance (uH)	Tolerance	Package	Special product
APIM	Length*Wide*High	S ±0.2mm D ±0.1mm	B Black G Gray	2R2 2.2 100 10 220 22	M ±20%	T Taping reel B Bulk	"A~Z"

Specification

APIM121065 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM121065SB2R2MT	2.2	280	340	1.0	0.9	1.3	1.2

NOTE:

- All test data is referenced to 25 °C ambient.
- Test Condition: 1MHz, 1.0Vrms.
- Irms: DC current (A) that will cause an approximate Δ T of 40 °C .
- Isat: DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55°C to + 125°C.
- The part temperature (ambient + temp rise) should not exceed 125 under °C the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.



High Current Power Inductors APIM Series

Specification

APIM160865 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM160865SBR47MT	0.47	66	82	2.3	2.0	3.3	3.0
APIM160865SBI1R0MT	1.0	180	200	1.8	1.5	2.4	2.0
APIM160865SB2R2MT	2.2	390	430	1.3	1.1	1.6	1.3

APIM160808 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM160808SBR22MT	0.22	33	40	3.4	3.0	5.5	5.0
APIM160808SBR24MT	0.24	34	41	3.3	2.9	5.3	4.8
APIM160808SBR47MT	0.47	80	100	2.6	2.3	4.1	3.7
APIM160808SBR56MT	0.56	85	110	2.2	1.9	4.0	3.5
APIM160808SBR68MT	0.68	110	130	2.1	1.9	3.3	3.0
APIM160808SBI1R0MT	1.0	180	200	2.1	1.8	3.0	2.6
APIM160808SBI1R5MT	1.5	240	285	1.7	1.4	2.4	2.0
APIM160808SB2R2MT	2.2	220	260	1.4	1.2	1.5	1.3
APIM160808SB3R3MT	3.3	500	600	1.0	0.9	1.4	1.2
APIM160808SB4R7MT	4.7	585	700	1.0	0.8	1.2	1.0
APIM160808SB100MT	10	1450	1600	0.5	0.45	0.8	0.7

APIM141265 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM141265SBR33MT	0.33	26	32	4.4	4.2	4.4	4.0
APIM141265SBR47MT	0.47	37	45	3.0	2.7	3.4	3.0

APIM141207 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM141207SBR24MT	0.24	22	28	4.0	3.6	4.6	4.3
APIM141207SBR47MT	0.47	34	38	3.8	3.3	3.8	3.5

APIM141208 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM141208SBR24MT	0.24	22	27	4.1	3.7	6.0	5.7
APIM141208SBR33MT	0.33	23	28	4.0	3.5	5.3	5.0
APIM141208SBR47MT	0.47	29	35	3.8	3.3	4.6	4.2
APIM141208SBI1R0MT	1.0	65	77	3.0	2.5	3.0	2.5

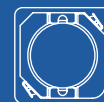
APIM201265 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201265SBI1R0MT	1.0	78	86	2.6	2.3	2.8	2.5
APIM201265SB2R2MT	2.2	215	230	1.7	1.4	1.8	1.5

APIM201208 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201208SBR11MT	0.11	10	12	7.0	6.5	9.5	9.0
APIM201208SBR15MT	0.15	11	13	6.8	6.3	7.5	7.0
APIM201208SBR24MT	0.24	18	23	6.5	5.9	6.5	6.0
APIM201208SBR33MT	0.33	33	45	4.3	4.0	5.2	4.8
APIM201208SBR47MT	0.47	34	50	3.5	3.3	5.0	4.6
APIM201208SBR68MT	0.68	50	60	3.7	3.3	4.2	3.7
APIM201208SBI1R0MT	1.0	55	70	3.3	2.9	4.0	3.5
APIM201208SBI1R5MT	1.5	118	135	2.2	1.9	3.0	2.5
APIM201208SB2R2MT	2.2	160	185	2.2	1.8	2.6	2.3
APIM201208SB3R3MT	3.3	253	300	1.8	1.5	1.9	1.6
APIM201208SB4R7MT	4.7	285	325	1.7	1.5	1.6	1.4

NOTE:

- All test data is referenced to 25 °C ambient.
- Test Condition:1MHz, 1.0Vrms.
- Irms:DC current (A) that will cause an approximate Δ T of 40 °C .
- Isat:DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55°C to + 125°C .
- The part temperature (ambient + temp rise) should not exceed 125 under °C the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

High Current Power Inductors APIM Series



Specification

APIM201210 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201210SBR10MT	0.1	8.0	13	7.5	7.0	8.5	8.0
APIM201210SBR22MT	0.22	16	22	7.1	6.5	7.3	6.8
APIM201210SBR24MT	0.24	17	23	7.0	6.4	7.2	6.7
APIM201210SBR33MT	0.33	24	32	5.5	5.0	6.5	6.0
APIM201210SBR47MT	0.47	29	36	4.7	4.3	5.5	5.0
APIM201210SBR68MT	0.68	37	43	4.3	4.0	5.0	4.5
APIM201210SB1R0MT	1.0	55	63	3.9	3.5	4.0	3.5
APIM201210SB1R5MT	1.5	76	85	3.1	2.6	3.2	2.7
APIM201210SB2R2MT	2.2	135	150	2.0	1.7	2.7	2.4
APIM201210SB3R3MT	3.3	210	260	1.8	1.5	2.2	1.8
APIM201210SB4R7MT	4.7	275	300	1.6	1.4	1.8	1.6
APIM201210SB6R8MT	6.8	440	520	1.5	1.3	1.45	1.2
APIM201210SB100MT	10.0	600	660	1.1	1.0	1.2	1.0

APIM201212 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201212SBR11MT	0.11	5.5	6.2	12	11	12	11
APIM201212SBR24MT	0.24	13	16	7.5	7.0	9.0	8.5
APIM201212SBR47MT	0.47	20	23.5	6.0	5.5	5.5	5.0
APIM201212SB3R3MT	3.3	180	210	1.8	1.6	2.0	1.8

APIM201655 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201655SBR33MT	0.33	34	41	4.0	3.5	4.0	3.5
APIM201655SBR47MT	0.47	44	53	3.5	3.0	3.5	3.0

APIM201665 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201655SB1R0MT	1.0	58	70	3.5	3.0	3.0	2.7

APIM201607 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201607SB2R2MT	2.2	150	175	2.1	1.8	2.3	2.0

APIM201608 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201608SBR22MT	0.22	14	19	6.6	5.9	6.1	5.6
APIM201608SBR24MT	0.24	14	20	6.5	5.8	6.0	5.5
APIM201608SBR33MT	0.33	18	24	5.5	4.8	5.8	5.3
APIM201608SBR47MT	0.47	24	27	4.6	4.4	5.5	5.0
APIM201608SBR68MT	0.68	39	44	3.8	3.5	4.6	4.2
APIM201608SB1R0MT	1.0	53	60	3.6	3.3	3.3	3.1
APIM201608SB1R5MT	1.5	73	85	3.1	2.8	3.0	2.8
APIM201608SB2R2MT	2.2	123	140	2.2	2.0	2.5	2.3
APIM201608SB3R3MT	3.3	200	220	1.8	1.5	2.1	1.8
APIM201608SB4R7MT	4.7	260	290	1.6	1.4	1.7	1.5
APIM201608SB100MT	10.0	690	800	1.0	0.9	1.0	0.9

NOTE:

- All test data is referenced to 25 °C ambient.
- Test Condition: 1MHz, 1.0Vrms.
- Irms: DC current (A) that will cause an approximate ΔT of 40 °C.
- Isat: DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55°C to + 125°C.
- The part temperature (ambient + temp rise) should not exceed 125 under °C the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.



High Current Power Inductors APIM Series

Specification

APIM201610 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201610SBR10MT	0.1	7.0	12	8.5	8.0	9.0	8.4
APIM201610SBR11MT	0.11	7.5	13	8.0	7.5	8.9	8.2
APIM201610SBR15MT	0.15	8.0	14	7.6	7.0	8.7	8.0
APIM201610SBR22MT	0.22	11	18	6.9	6.3	8.2	7.5
APIM201610SBR24MT	0.24	12	19	6.8	6.2	8.0	7.4
APIM201610SBR33MT	0.33	17	22	5.7	5.3	7.0	6.5
APIM201610SBR47MT	0.47	22	25	5.5	5.0	6.3	5.5
APIM201610SBR56MT	0.56	19	23	7.5	7.0	5.5	5.0
APIM201610SBR68MT	0.68	25	32	4.6	4.3	5.2	4.7
APIM201610SBIR0MT	1.0	35	43	4.5	4.1	4.6	4.2
APIM201610SBIR5MT	1.5	80	100	2.6	2.3	3.2	2.9
APIM201610SB2R2MT	2.2	120	130	2.5	2.1	3.0	2.8
APIM201610SB3R3MT	3.3	140	170	1.7	1.5	2.3	2.0
APIM201610SB4R7MT	4.7	190	220	1.6	1.4	2.0	1.8
APIM201610SB6R8MT	6.8	320	350	1.7	1.5	1.7	1.5
APIM201610SB100MT	10.0	483	580	1.0	0.7	1.4	1.1

APIM201612 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM201612SBR10MT	0.1	4.0	6.0	12	10	13	11.5
APIM201612SBR11MT	0.11	4.8	5.6	15.5	14.5	12.5	11.0
APIM201612SBR15MT	0.15	7.5	10	10	9.0	12	10.5
APIM201612SBR24MT	0.24	9.0	11	9.1	8.6	9.2	8.7
APIM201612SBR33MT	0.33	10	15	7.7	7.2	7.8	7.3
APIM201612SBR47MT	0.47	13	17	6.7	6.0	6.7	6.0
APIM201612SBR68MT	0.68	19	23	6.0	5.3	6.0	5.3
APIM201612SBIR0MT	1.0	30	36	5.0	4.5	5.0	4.5
APIM201612SBIR5MT	1.5	40	50	4.0	3.5	4.0	3.5
APIM201612SB2R2MT	2.2	77	90	3.3	2.9	3.1	2.7
APIM201612SB3R3MT	3.3	135	165	2.4	2.0	2.7	2.3

APIM252055 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM252055SBR22MT	0.22	23	28	6.5	6.0	4.8	4.5
APIM252055SBR47MT	0.47	42	49	5.5	5.2	3.5	3.2

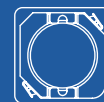
APIM252075 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM252075SB2R2MT	2.2	78	90	2.3	2.0	2.6	2.4
APIM252075SB100MT	10.0	487	530	1.1	0.9	1.1	0.9

APIM252008 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM252008SBR47MT	0.47	22	27	6.5	6.0	6.0	5.3
APIM252008SBIR0MT	1.0	34	40	4.3	4.0	4.5	4.0
APIM252008SBIR5MT	1.5	64	75	3.4	3.0	3.5	3.0
APIM252008SB2R2MT	2.2	69	77	3.0	2.6	3.0	2.6
APIM252008SB3R3MT	3.3	150	180	2.5	2.1	2.5	2.1
APIM252008SB4R7MT	4.7	180	215	2.0	1.5	1.9	1.5
APIM252008SB100MT	10.0	500	600	1.4	1.2	1.1	0.9

NOTE:

- All test data is referenced to 25 °C ambient.
- Test Condition: 1MHz, 1.0Vrms.
- Irms: DC current (A) that will cause an approximate ΔT of 40 °C .
- Isat: DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55°C to + 125°C .
- The part temperature (ambient + temp rise) should not exceed 125 under °C the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

High Current Power Inductors APIM Series



Specification

APIM252010 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM252010SBR22MT	0.22	12	17	6.8	6.5	8.6	7.9
APIM252010SBR24MT	0.24	12	17.5	6.7	6.4	8.5	7.8
APIM252010SBR33MT	0.33	13	19	6.5	6.2	7.6	7.2
APIM252010SBR47MT	0.47	15	22	6.1	5.6	6.9	6.5
APIM252010SBR68MT	0.68	23	27	5.6	5.0	5.9	5.5
APIM252010SBR82MT	0.82	25	29	4.5	4.1	5.3	4.8
APIM252010SB1R0MT	1.0	25	30	4.5	4.1	5.3	4.8
APIM252010SB1R5MT	1.5	45	55	3.4	3.0	4.3	3.9
APIM252010SB2R2MT	2.2	62	70	2.4	2.1	3.3	3.0
APIM252010SB3R3MT	3.3	86	100	2.5	2.1	2.8	2.5
APIM252010SB4R7MT	4.7	160	180	2.0	1.6	2.6	2.0
APIM252010SB6R8MT	6.8	270	320	1.6	1.4	2.4	1.9
APIM252010SB100MT	10.0	500	560	1.05	0.95	1.55	1.4
APIM252010SB220MT	22.0	1100	1300	0.85	0.6	1.1	0.9

APIM252012 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM252012SBR10MT	0.1	6	10	12	10.5	13.5	12.5
APIM252012SBR15MT	0.15	7	11	11.5	10	13.0	12.0
APIM252012SBR22MT	0.22	9	14	8.2	7.6	9.6	9.0
APIM252012SBR24MT	0.24	10	15	8.0	7.5	9.3	8.8
APIM252012SBR33MT	0.33	11	17	6.8	6.4	8.3	7.8
APIM252012SBR47MT	0.47	13	19	6.5	6.0	7.5	7.0
APIM252012SBR68MT	0.68	17	23	6.3	5.5	6.5	6.0
APIM252012SBR82MT	0.82	19	24	5.8	5.3	6.5	5.8
APIM252012SB1R0MT	1.0	35	42	4.0	3.6	5.6	5.0
APIM252012SB1R2MT	1.2	40	45	3.8	3.4	4.5	4.1
APIM252012SB1R5MT	1.5	44	50	3.7	3.2	4.5	4.1
APIM252012SB2R2MT	2.2	55	65	3.0	2.7	3.8	3.3
APIM252012SB3R3MT	3.3	80	97	2.3	1.8	3.0	2.7
APIM252012SB4R7MT	4.7	150	170	1.8	1.5	2.4	2.1
APIM252012SB6R8MT	6.8	245	270	1.6	1.4	2.0	1.7
APIM252012SB100MT	10.0	330	400	1.2	1.05	1.6	1.45
APIM252012SB150MT	15.0	500	565	1.4	1.3	1.4	1.3
APIM252012SB220MT	22.0	740	800	1.2	1.1	1.1	1.0

APIM322510 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM322510SBR22MT	0.22	9	11	8.5	8.0	8.5	8.0
APIM322510SBR33MT	0.33	11	15	8.3	7.8	8.3	7.8
APIM322510SBR47MT	0.47	17	22	6.4	5.9	8.3	7.6
APIM322510SBR68MT	0.68	22	28	6.2	5.7	7.5	7.0
APIM322510SB1R0MT	1.0	25	30	5.4	4.9	6.0	5.3
APIM322510SB1R5MT	1.5	34	42	4.0	3.6	5.0	4.4
APIM322510SB2R2MT	2.2	55	66	3.7	3.4	4.0	3.5
APIM322510SB3R3MT	3.3	105	120	2.7	2.3	3.7	3.3
APIM322510SB4R7MT	4.7	125	140	2.3	1.9	2.8	2.5
APIM322510SB6R8MT	6.8	290	320	1.9	1.6	2.4	2.0
APIM322510SB100MT	10.0	325	365	2.2	1.8	2.2	1.8

NOTE:

- All test data is referenced to 25 °C ambient.
- Test Condition: 1MHz, 1.0Vrms.
- Irms: DC current (A) that will cause an approximate Δ T of 40 °C.
- Isat: DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55°C to + 125°C.
- The part temperature (ambient + temp rise) should not exceed 125 under °C the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.



High Current Power Inductors APIM Series

Specification

APIM322512 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM322512SBR10MT	0.10	5.2	7.0	12.0	11.0	18.0	16.5
APIM322512SBR22MT	0.22	6.6	10	9.2	8.7	11.5	11.0
APIM322512SBR24MT	0.24	7.0	12	9.0	8.5	11	10.5
APIM322512SBR33MT	0.33	9.0	14	8.4	8.1	10	9.5
APIM322512SBR47MT	0.47	14	19	7.5	7.2	8.6	8.2
APIM322512SBR68MT	0.68	18	23	7.3	6.8	8.1	7.7
APIM322512SBIR0MT	1.0	26	30	5.3	4.8	6.6	5.8
APIM322512SBIR5MT	1.5	37	44	4.7	4.3	5.1	4.7
APIM322512SB2R2MT	2.2	58	70	3.6	3.0	4.6	4.2
APIM322512SB3R3MT	3.3	75	95	2.9	2.5	3.7	3.2
APIM322512SB4R7MT	4.7	115	135	2.3	2.0	2.9	2.6
APIM322512SB6R8MT	6.8	177	210	2.1	1.9	2.8	2.4
APIM322512SB100MT	10.0	210	230	2.2	1.8	2.3	1.9

APIM322520 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM322520SBR27MT	0.27	5.5	6.5	16	15	16	15
APIM322520SBR33MT	0.33	7.5	9	9.5	9	15.5	14
APIM322520SBR47MT	0.47	9	10.5	9.5	8.5	15	13
APIM322520SBR68MT	0.68	12.5	14.5	9.0	8.0	13	11
APIM322520SBIR0MT	1.0	15	17.5	8.2	7.5	9.0	8.3
APIM322520SBIR5MT	1.5	22	25	6.5	6.0	6.8	6.0
APIM322520SB2R2MT	2.2	36	43	5.4	4.8	6.5	5.5
APIM322520SB3R3MT	3.3	55	60	4.5	4.0	4.5	3.5
APIM322520SB4R7MT	4.7	81	94	3.5	3.0	4.0	3.0
APIM322520SB6R8MT	6.8	101	125	2.8	2.3	3.8	2.9

APIM0310 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0310DB6R8MT	6.8	225	270	2.1	1.8	1.8	1.5
APIM0310DB100MT	10.0	320	360	2.0	1.7	1.6	1.3

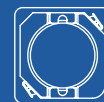
APIM0312 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0312DBR10MT	0.10	5.0	6.0	18	17	20	18
APIM0312DBIR0MT	1.0	23	27	5.5	5.0	6.5	5.5
APIM0312DB4R7MT	4.7	100	120	3.0	2.5	3.0	2.5
APIM0312DB100MT	10.0	192	220	2.3	1.9	2.3	2.0
APIM0312DB150MT	15.0	345	380	1.6	1.3	1.9	1.6

APIM0315 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0315DBR15MT	0.15	5.0	6.0	12.0	11.0	16.0	15.0
APIM0315DBR47MT	0.47	9.0	11	9.0	8.0	10.0	9.0
APIM0315DBIR0MT	1.0	18	22	6.0	5.5	7.0	6.5
APIM0315DBIR5MT	1.5	22	26	8.0	7.5	6.0	5.5
APIM0315DB2R2MT	2.2	42	50	4.5	4.0	5.0	4.5
APIM0315DB4R7MT	4.7	87	104	3.5	3.0	4.0	3.5
APIM0315DB6R8MT	6.8	160	180	2.5	2.0	3.5	3.0
APIM0315DB100MT	10.0	185	215	2.0	1.5	2.8	2.5
APIM0315DB220MT	22.0	580	700	1.2	1.0	1.6	1.2

NOTE:

- All test data is referenced to 25 °C ambient.
- Test Condition: 1MHz, 1.0Vrms.
- Irms: DC current (A) that will cause an approximate Δ T of 40 °C .
- Isat: DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55°C to + 125°C .
- The part temperature (ambient + temp rise) should not exceed 125 under °C the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

High Current Power Inductors APIM Series



Specification

APIM0318 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0318DBR22MT	0.22	5.5	7.0	10.0	9.0	17	16
APIM0318DBR47MT	0.47	8	10	9.0	8.0	12	11
APIM0318DB1R0MT	1.0	15	21	6.3	5.8	7.6	6.8
APIM0318DB1R5MT	1.5	20	26	6.8	6.4	8.0	7.0
APIM0318DB4R7MT	4.7	72	87	3.4	3.0	4.7	4.2

APIM0320 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0320DBR15MT	0.15	4.0	5.0	13	12	18	17
APIM0320DBR33MT	0.33	7.5	9	10.0	9.0	17	15
APIM0320DBR50MT	0.5	9.0	12	9.0	8.0	15	13
APIM0320DBR68MT	0.68	13	16	8.5	7.8	13	11
APIM0320DB1R0MT	1.0	14	20	6.5	6.0	8.0	7.3
APIM0320DB1R5MT	1.5	19	25	6.3	5.8	7.0	6.5
APIM0320DB2R2MT	2.2	37	45	4.7	4.3	6.0	5.5
APIM0320DB3R3MT	3.3	52	63	4.5	4.0	5.9	5.4
APIM0320DB4R7MT	4.7	60	73	4.2	3.8	4.8	4.0
APIM0320DB6R8MT	6.8	107	135	3.2	3.0	4.5	3.8
APIM0320DB100MT	10.0	135	160	2.5	2.2	3.8	3.3
APIM0320DB150MT	15.0	235	260	1.8	1.5	2.6	2.2

APIM0410 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0410SG100MT	10	220	280	2.5	2.0	2.2	2.0

APIM0412 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0412SGR47MT	0.47	11.5	14	9.0	8.5	12	11.5
APIM0412SG1R0MT	1.0	21	25	6.3	5.5	11	10
APIM0412SG1R5MT	1.5	29	34.5	6.0	5.0	8.0	7.0
APIM0412SG2R2MT	2.2	45	55	5.0	4.5	6.5	6.0
APIM0412SG3R3MT	3.3	67	80	4.5	4.0	5.5	5.0
APIM0412SG4R7MT	4.7	90	110	3.5	3.0	5.0	4.5
APIM0412SG5R6MT	5.6	116	140	3.0	2.5	4.5	4.0
APIM0412SG6R8MT	6.8	132	160	2.8	2.3	3.8	3.5
APIM0412SG100MT	10.0	200	235	2.5	2.0	2.8	2.5

APIM0420 Series							
Part Number	L0(μH) @ (0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0420SGR33MT	0.33	5.0	6.0	9.5	8.5	18.0	17.0
APIM0420SGR47MT	0.47	7.0	8.5	8.5	8.0	16.0	15.0
APIM0420SG1R0MT	1.0	12	14.5	6.5	6.0	12.5	11.5
APIM0420SG1R5MT	1.5	18	22	6.0	5.5	10.5	9.5
APIM0420SG2R2MT	2.2	30	36	5.5	5.0	9.5	8.5
APIM0420SG3R3MT	3.3	35	40	6.3	5.8	8.0	7.0
APIM0420SG4R7MT	4.7	47	58	5.0	4.0	6.3	5.5
APIM0420SG6R8MT	6.8	90	105	3.7	3.2	5.4	4.5
APIM0420SG100MT	10	113	135	3.7	3.0	4.9	4.0
APIM0420SG150MT	15	210	250	2.3	1.7	3.5	3.0
APIM0420SG220MT	22	275	330	1.8	1.3	2.9	2.3

NOTE:

- All test data is referenced to 25 °C ambient.
- Test Condition: 1MHz, 1.0Vrms.
- Irms: DC current (A) that will cause an approximate Δ T of 40 °C .
- Isat: DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55°C to + 125°C .
- The part temperature (ambient + temp rise) should not exceed 125 under °C the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.



High Current Power Inductors APIM Series

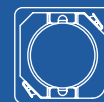
Specification

Part Number	L0(μ H) @ (0A) 1MHz	APIM0430 Series					
		Rdc(m Ω)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
APIM0430SGR47MT	0.47	5.5	7.0	15	14	23	21
APIM0430SGR68MT	0.68	8.3	10	9.5	8.0	17	15
APIM0430SG1R0MT	1.0	10	12	10	9.0	15.5	14
APIM0430SG1R5MT	1.5	15	18	6.5	6.0	12.5	11
APIM0430SG2R2MT	2.2	19	22	9.0	8.5	10.5	9.5
APIM0430SG3R3MT	3.3	30	35	5.3	4.8	8.5	7.5
APIM0430SG4R7MT	4.7	41	46	4.3	4.0	7.0	6.0
APIM0430SG6R8MT	6.8	51	62	4.2	3.8	6.3	5.1

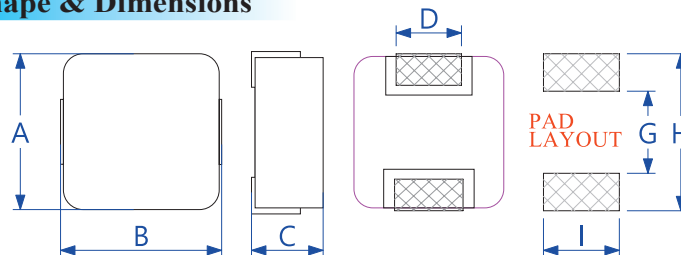
NOTE:

- All test data is referenced to 25 °C ambient.
- Test Condition:1MHz, 1.0Vrms.
- Irms:DC current (A) that will cause an approximate ΔT of 40 °C .
- Isat:DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55°C to + 125°C .
- The part temperature (ambient + temp rise) should not exceed 125 under °C the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

High Current Power Inductors AMPI_GD Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	G (Ref.)	H (Ref.)	I (Ref.)
AMPI0418GD	4.2±0.25	4.4±0.35	1.8Max	2.0±0.3	1.93	4.95	2.30
AMPI0520GD	5.2±0.3	5.8±0.3	2.0Max	2.2±0.3	2.50	6.10	2.50
AMPI0530GD	5.3±0.3	5.8±0.3	3.0Max	2.2±0.3	2.50	6.10	2.50
AMPI0540GD	5.3±0.3	5.8±0.3	4.0Max	2.2±0.3	2.50	6.10	2.50
AMPI0630GD	6.6±0.3	7.3±0.3	3.0Max	3.0±0.3	3.70	8.40	3.50
AMPI0640GD	6.6±0.3	7.3±0.3	4.0Max	3.0±0.5	3.70	8.40	3.50
AMPI0650GD	6.6±0.3	7.3±0.3	5.0Max	3.0±0.5	3.70	8.40	3.50
AMPI0740GD	7.0±0.3	8.0±0.5	4.0Max	3.0±0.5	3.60	9.40	3.50
AMPI7524GD	7.6±0.3	8.3±0.5	2.4Max	3.0±0.5	2.85	9.30	3.50
AMPI1040GD	10.0±0.3	11.0±0.5	4.0Max	3.0±0.5	5.80	12.50	3.50
AMPI1265GD	12.6±0.3	13.8±0.5	6.5Max	4.0±0.5	8.00	15.00	4.50
AMPI1280GD	12.6±0.3	13.8±0.5	8.0Max	4.0±0.5	8.00	15.00	4.50
AMPI060750GD	7.5±0.5	7.2±0.5	5.0Max	5.0±0.5	3.70	8.10	5.50
AMPI070840GD	8.2±0.3	8.6±0.5	4.0Max	3.5±0.5	3.60	9.60	4.00
AMPI080640GD	6.0±0.2	9.5±0.5	4.0Max	3.0±0.5	3.50	11.00	3.50
AMPI090740GD	7.2±0.2	10.7±0.5	4.0Max	3.5±0.5	5.00	11.70	4.00
AMPI090750GD	7.2±0.2	10.7±0.5	5.0Max	4.0±0.5	5.00	11.70	4.50
AMPI095640GD	5.6±0.3	10.2±0.5	4.0Max	2.8±0.3	5.00	11.20	3.50
AMPI100740GD	7.2±0.3	11.0±0.5	4.0Max	4.0±0.5	5.70	12.50	4.50
AMPI100750GD	7.2±0.3	11.0±0.5	5.0Max	5.0±0.5	5.70	12.50	5.50
AMPI100760GD	7.0±0.3	11.0±0.5	6.0Max	3.7±0.5	5.70	12.50	4.50
AMPI107830GD	7.9±0.2	11.0±0.5	3.0Max	3.0±0.5	5.70	12.50	3.50
AMPI107840GD	7.9±0.2	11.0±0.5	4.0Max	4.0±0.5	5.70	12.50	4.50
AMPI107850GD	7.9±0.2	11.0±0.5	5.0Max	4.0±0.5	5.70	12.50	4.50
AMPI107855GD	7.9±0.2	11.0±0.5	5.5Max	5.0±0.5	5.70	12.50	5.50
AMPI107860GD	7.9±0.2	11.0±0.5	6.0Max	4.5±0.5	5.70	12.50	5.00
AMPI107870GD	7.9±0.2	11.0±0.5	7.0Max	5.0±0.5	5.70	12.50	5.50
AMPI110865GD	8.2±0.3	12.9±0.5	6.5Max	5.0±0.5	6.50	14.40	5.50
AMPI120440GD	4.0Max	12.8±0.5	4.0Max	3.0±0.5	6.00	14.50	3.50
AMPI737640GD	7.8±0.2	8.1±0.3	4.0Max	3.0±0.2	4.40	9.00	3.50

Features

- High performance realized by metal core.
- Compact and low profile with max.3.0mm.
- Low loss realized with low DCR and high Isat.
- Applicable at high frequency up to 750 KHz.
- RoHS compliant.

Applications

- DC/DC converter for CPU in Notebook PC.
- Thin type on-board power supply module for exchanger VRM for server.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AMPI	Length*High e.g:0418 Length*Width*High e.g:060750	GD Type Code	90N 0.09 R10 0.10 1R0 1.0 100 10	K ±10% L ±15% M ±20% N ±25% Y ±30%	T Taping reel V Vacuum packing	"A~Z"

Specification

AMPI0418GD Series Specification

Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI0418GDR36 □ V	0.36	100	8.20	18.0	11.0

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance K: ±10% • L: ±15% • M: ±20% • N: ±25% • Y: ±30%

- Isat: For Inductance drop 30% from its value without current.

- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).



High Current Power Inductors AMPI_GD Series

Specification

AMPI0520GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI0520GD90N □ V	0.09	100	1.05	40.0	30.0
AMPI0520GDR10 □ V	0.10	100	3.20	51.0	20.3
AMPI0520GDR15 □ V	0.15	100	2.30	38.0	23.0
AMPI0520GDR47 □ V	0.47	100	7.20	20.0	12.0

AMPI0530GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI0530GDR10 □ V	0.10	100	0.85	70.0	38.0
AMPI0530GDR12 □ V	0.12	100	1.05	50.0	30.0
AMPI0530GDR15 □ V	0.15	100	1.07	40.0	27.0

AMPI0540GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI0540GDR23 □ V	0.23	100	2.20	40.0	24.0

AMPI0630GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI0630GDR12 □ V	0.12	100	0.94	60.0	33.0
AMPI0630GDR15 □ V	0.15	100	0.99	60.0	34.0
AMPI0630GDR22 □ V	0.22	100	1.25	50.0	30.0

AMPI0640GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI0640GDR12 □ V	0.12	100	0.70	55.0	40.0
AMPI0640GDR15 □ V	0.15	100	0.70	80.0	45.0
AMPI0640GDR22 □ V	0.22	100	0.84	50.0	37.0

AMPI0650GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI0650GDR33 □ V	0.33	100	1.37	45.0	30.0

AMPI0740GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI0740GDR22 □ V	0.22	100	0.85	50.0 (≒ 35%)	36.0

AMPI7524GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI7524GDR15 □ V	0.15	100	0.96	50.0 (≒ 35%)	35.0

AMPI1040GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI1040GDR12 □ V	0.12	100	0.42	90.0	50.0
AMPI1040GDR19 □ V	0.19	100	0.95	90.0	40.0

AMPI1265GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI1265GDR33 □ V	1.30	100	1.71	50.0 (≒ 35%)	30.0

AMPI1280GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI1280GDR10 □ V	1.00	100	1.20	62.0	45.0
AMPI1280GDR15 □ V	1.50	100	1.50	53.0	36.0

AMPI060750GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI060750GDR10 □ V	1.00	100	4.07	40.0	18.0

AMPI070840GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI070840GDR15 □ V	0.15	100	0.66	70.0	42.0
AMPI070840GDR21 □ V	0.21	100	0.87	52.0	36.0
AMPI070840GDR33 □ V	0.33	100	1.56	75.0	28.0

AMPI080640GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI080640GDR15 □ V	0.15	100	0.83	78.0 (≒ 35%)	39.0

AMPI090740GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI090740GDR15 □ V	0.15	100	0.67	100.0	45.0
AMPI090740GDR19 □ V	0.19	100	0.93	80.0	36.0
AMPI090740GDR22 □ V	0.22	100	0.71	75.0	42.0
AMPI090740GDR33 □ V	0.33	100	1.56	65.0	27.0

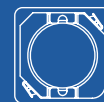
AMPI090750GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI090750GDR14 □ V	0.14	100	0.48	100.0	49.0
AMPI090750GDR15 □ V	0.15	100	0.56	90.0	46.0
AMPI090750GDR17 □ V	0.17	100	0.56	110.0	46.0
AMPI090750GDR21 □ V	0.21	100	0.76	90.0	40.0
AMPI090750GDR22 □ V	0.22	100	0.60	70.0	50.0
AMPI090750GDR30 □ V	0.30	100	0.97	75.0	34.0

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance K: ±10% • L: ±15% • M: ±20% • N: ±25% • V: ±30%

- Isat: For Inductance drop 30% from its value without current.
- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

High Current Power Inductors AMPI_GD Series



Specification

AMPI095640GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI095640GDR15 □ V	0.15	100	0.67	100.0	45.0
AMPI100740GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI100740GDR12 □ V	0.12	100	0.43	110.0	56.0
AMPI100740GDR22 □ V	0.22	100	0.74	75.0	45.0
AMPI100750GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI100750GDR10 □ V	0.10	100	0.36	120.0	65.0
AMPI100750GDR12 □ V	0.12	100	0.53	120.0	45.0
AMPI100750GDR14 □ V	0.14	100	0.38	100.0	55.0
AMPI100750GDR15 □ V	0.15	100	0.40	110.0	55.0
AMPI100760GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI100760GDR33 □ V	0.33	100	0.99	75.0	35.0
AMPI107830GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI107830GDR15 □ V	0.15	100	0.71	80.0	43.0
AMPI107830GDR17 □ V	0.17	100	0.99	90.0	33.0
AMPI107830GDR19 □ V	0.19	100	1.10	90.0	31.0
AMPI107830GDR20 □ V	0.20	100	0.93	70.0	35.0
AMPI107830GDR22 □ V	0.22	100	1.02	70.0	33.0
AMPI107840GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI107840GDR10 □ V	0.10	100	0.47	140.0	54.0
AMPI107840GDR15 □ V	0.15	100	0.87	130.0	37.0
AMPI107840GDR15 □ VA	0.15	100	0.61	90.0	44.0
AMPI107840GDR17 □ V	0.17	100	1.10	130.0	33.0
AMPI107840GDR19 □ V	0.19	100	1.25	130.0	31.0
AMPI107840GDR19 □ VA	0.19	100	0.89	90.0	37.0
AMPI107840GDR22 □ V	0.22	100	0.60	80.0	44.0
AMPI107840GDR33 □ V	0.33	100	1.67	100.0	28.0
AMPI107850GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI107850GDR15 □ V	0.15	100	0.62	140.0	46.0
AMPI107850GDR17 □ V	0.17	100	0.75	130.0	42.0
AMPI107855GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI107855GDR12 □ V	0.12	100	0.50	140.0	54.0
AMPI107855GDR15 □ V	0.15	100	0.38	100.0	55.0
AMPI107855GDR17 □ V	0.17	100	0.44	100.0	51.0
AMPI107855GDR19 □ V	0.19	100	0.54	100.0	48.0
AMPI107855GDR21 □ V	0.21	100	0.64	100.0	46.0
AMPI107855GDR23 □ V	0.23	100	0.73	100.0	41.0
AMPI107855GDR33 □ V	0.33	100	0.83	90.0	37.0
AMPI107860GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI107860GDR19 □ V	0.19	100	0.84	130.0	40.0
AMPI107870GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI107870GDR18 □ V	0.18	100	0.72	140.0	50.0
AMPI107870GDR47 □ V	0.47	100	0.82	60.0	45.0
AMPI10865GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI10865GDR15 □ V	0.15	100	0.34	130.0	60.0
AMPI120440GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI120440GDR11 □ V	0.11	100	0.30	80.0	60.0
AMPI1737640GD Series Specification					
Part Number	Inductance (uH)	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Typ.	Temp. Rise current (A) Typ.
AMPI1737640GDR68 □ V	0.68	100	4.20	24.0	18.0

NOTE:

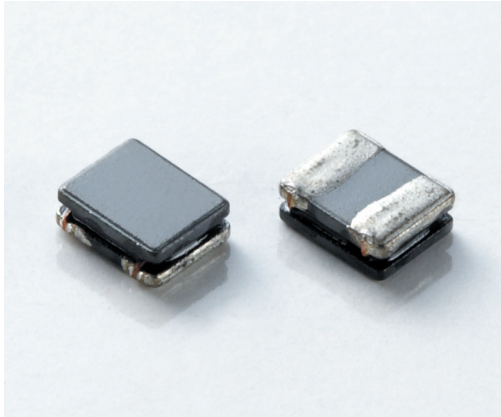
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance K: ±10% • L: ±15% • M: ±20% • N: ±25% • Y: ±30%

- Isat: For Inductance drop 30% from its value without current.

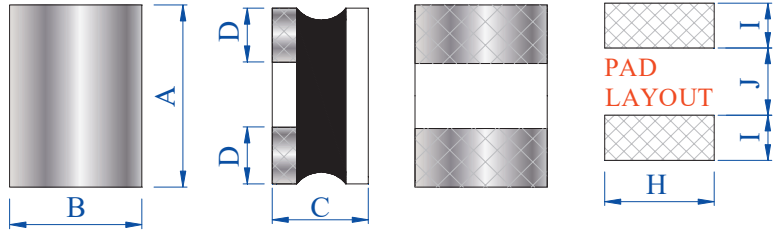
- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).



SMD Power Inductors AQH_MK Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AQH201610MK	2.0+0.3/-0.1	1.6+0.3/-0.1	*1 1.15 MAX.	0.6 Typ.	1.8	0.8	0.8
	2.0+0.3/-0.1	1.6+0.3/-0.1	*2 1.1 MAX.	0.6 Typ.	1.8	0.8	0.8
AQH252010MK	2.5+0.3/-0.1	2.0+0.3/-0.1	*3 1.0±0.05	0.8 Typ.	2.4	1.05	0.8
	2.5+0.3/-0.1	2.0+0.3/-0.1	*4 1.0 MAX.	0.8 Typ.	2.4	1.05	0.8
AQH252012MK	2.5+0.3/-0.1	2.0+0.35/-0.05	1.25 MAX.	0.8 Typ.	2.4	1.05	0.8

*1)R47~1R0=1.15 MAX. *2)1R5~100=1.1 MAX.

*3)R24~1R0=1.0±0.05 *4)1R5~150=1.0 MAX.

Features

- RoHS compliant.
- Low DC resistance and high current.
- Highly accurate dimensions.
- Superior EMI characteristics with ultra low radiation comparing to conventional shielded power inductors.
- Halogen free.

Applications

- LCD Displays.
- Smartphone.
- DSC.
- Tablet PC and other portable devices.
- DC/DC converters.

Product Identification

AQH		201610		△△△		100		M		T		△	
①		②		③		④		⑤		⑥		⑦	
Product	Dimension	Type		Inductance (uH)		Tolerance		Package		Special product			
AQH	201610/ 252010/252012	MK△	Type Code	2R2	2.2	M	±20%	T	Taping reel	"A~Z"			
				100	10	Y	±30%	B	Bulk				
				220	22								

Specification

AQH201610MK Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AQH201610MKR47 □ T	0.47	Y	100	70	2.30	2.20
AQH201610MKR68 □ T	0.68	Y	100	82	1.95	2.05
AQH201610MK1R0 □ T	1.0	Y	100	120	1.50	1.50
AQH201610MK1R5 □ T	1.5	Y	100	174	1.35	1.40
AQH201610MK2R2 □ T	2.2	M,Y	100	205	1.10	1.20
AQH201610MK3R3 □ T	3.3	M,Y	100	335	0.90	0.88
AQH201610MK4R7 □ T	4.7	M,Y	100	479	0.77	0.90
AQH201610MK6R8 □ T	6.8	M,Y	100	816	0.70	0.52
AQH201610MK100 □ T	10	M,Y	100	912	0.55	0.45

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 30% from its value without current.

- □ Tolerance M: ±20% • Y: ±30%

- Irms: The value of D.C current when the temperature rise is Δ T ≤ 40°C (Ta=25°C).

SMD Power Inductors AQH_MK Series



Specification

AQH252010MK Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AQH252010MKR24 □ T	0.24	Y	1.0	34	3.50	2.65
AQH252010MKR33 □ T	0.33	Y	1.0	44	3.40	2.40
AQH252010MKR47 □ T	0.47	Y	1.0	45	2.40	2.30
AQH252010MKR68 □ T	0.68	Y	1.0	47	2.30	2.20
AQH252010MK1R0 □ T	1.0	M,Y	1.0	82	1.80	1.80
AQH252010MK1R5 □ T	1.5	M,Y	1.0	108	1.40	1.40
AQH252010MK2R2 □ T	2.2	M,Y	1.0	156	1.30	1.30
AQH252010MK3R3 □ T	3.3	M,Y	1.0	228	1.10	1.10
AQH252010MK4R7 □ T	4.7	M,Y	1.0	320	0.95	0.92
AQH252010MK6R8 □ T	6.8	M,Y	1.0	470	0.80	0.76
AQH252010MK100 □ T	10	M,Y	1.0	600	0.65	0.67
AQH252010MK150 □ T	15	M,Y	1.0	984	0.40	0.40

AQH252012MK Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AQH252012MKR47 □ T	0.47	Y	1.0	31	3.70	2.60
AQH252012MKR68 □ T	0.68	Y	1.0	40	2.90	2.60
AQH252012MK1R0 □ T	1.0	M,Y	1.0	50	2.25	2.16
AQH252012MK1R5 □ T	1.5	M,Y	1.0	68	1.75	2.07
AQH252012MK2R2 □ T	2.2	M,Y	1.0	80	1.62	1.62
AQH252012MK3R3 □ T	3.3	M,Y	1.0	130	1.30	1.35
AQH252012MK4R7 □ T	4.7	M,Y	1.0	190	0.99	0.99
AQH252012MK6R8 □ T	6.8	M,Y	1.0	300	0.85	0.72
AQH252012MK100 □ T	10	M,Y	1.0	385	0.79	0.63
AQH252012MK150 □ T	15	M,Y	1.0	570	0.61	0.55
AQH252012MK220 □ T	22	M,Y	1.0	810	0.49	0.47

NOTE:

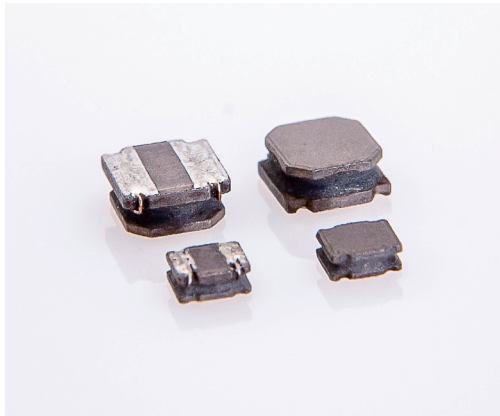
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 30% from its value without current.

- □ Tolerance M : ±20% • Y : ±30%

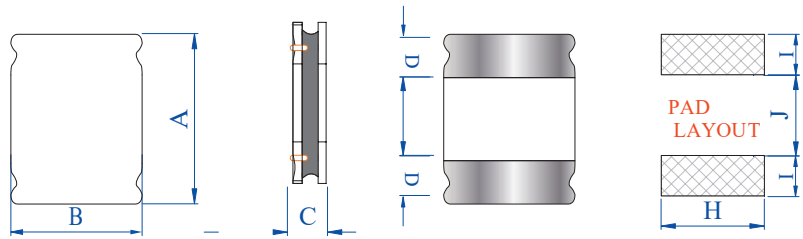
- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).



SMD Power Inductors AHNR Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AHNR201610M	2.0 ± 0.30	1.6 ± 0.30	1.05 MAX.	0.6	1.8	0.80	0.8
AHNR252010	2.5 ± 0.25	2.1 ± 0.25	1.0 MAX.	0.8	2.2	0.95	0.8
AHNR252012	2.5 ± 0.25	2.1 ± 0.25	1.2 MAX.	0.8	2.2	0.95	0.8

Features

- Fe base metal core provides large saturation current.
- Metallization on ferrite core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit reduces leakage flux and Electro Magnetic Interference (EMI).
- Low DCR decreases power loss, small take up less PCB real estate.
- Automatic production ensures high quality and consistency.

Applications

- Smartphone.
- Blue-ray disc recorders, set top box.
- Notebook, desktop computers, servers.
- Portable gaming devices, personal navigation systems, personal multimedia devices.

Product Identification

①	②	③	④	⑤	⑥	⑦
AHNR	252010	△△△	100	M	T	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AHNR	201610 252010/252012	△△△ Type Code	2R2 2.2 100 10	M ±20% Y ±30%	T Taping reel B Bulk	"A~Z"

Specification

AHNR201610M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AHNR201610MR47 □ T	0.47	Y	1.0	70	4.00	2.50
AHNR201610MR68 □ T	0.68	Y	1.0	72	3.50	2.30
AHNR201610M1R0 □ T	1.0	Y	1.0	115	2.80	1.85
AHNR201610M1R5 □ T	1.5	Y	1.0	155	1.95	1.50
AHNR201610M2R2 □ T	2.2	Y	1.0	185	1.70	1.30
AHNR201610M3R3 □ T	3.3	M,Y	1.0	360	1.40	1.10
AHNR201610M4R7 □ T	4.7	M,Y	1.0	528	1.20	0.90
AHNR201610M6R8 □ T	6.8	M,Y	1.0	680	0.80	0.70

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 30% from its value without current.
- □ Tolerance M: ±20% • Y: ±30%
- Irms: The value of D.C current when the temperature rise is Δ T ≤ 40°C (Ta=25°C).

SMD Power Inductors AHNR Series



Specification

AHNR252010 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AHNR252010R33 □ T	0.33	Y	1.0	39	4.80	3.70
AHNR252010R47 □ T	0.47	Y	1.0	45	4.40	3.40
AHNR252010R68 □ T	0.68	Y	1.0	59	3.20	2.75
AHNR2520101R0 □ T	1.0	M,Y	1.0	76	3.10	2.50
AHNR2520101R5 □ T	1.5	M,Y	1.0	100	2.80	2.00
AHNR2520102R2 □ T	2.2	M,Y	1.0	135	2.30	1.80
AHNR2520103R3 □ T	3.3	M,Y	1.0	235	1.60	1.40
AHNR2520104R7 □ T	4.7	M,Y	1.0	276	1.30	1.10
AHNR2520106R8 □ T	6.8	M,Y	1.0	416	1.15	1.05
AHNR252010100 □ T	10	M,Y	1.0	500	1.00	0.90
AHNR252010220 □ T	22	M,Y	1.0	1300	0.60	0.60

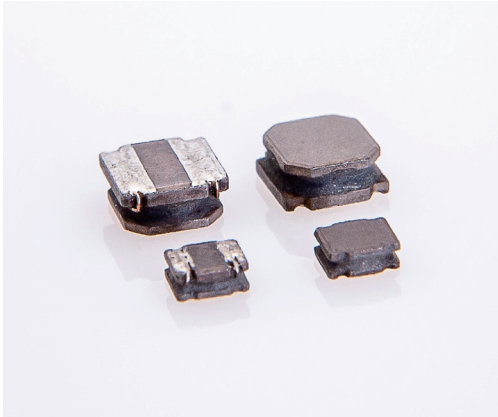
AHNR252012 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AHNR252012R33 □ T	0.33	Y	1.0	30	5.30	3.80
AHNR252012R47 □ T	0.47	Y	1.0	35	5.00	3.80
AHNR252012R68 □ T	0.68	Y	1.0	43	4.80	3.20
AHNR2520121R0 □ T	1.0	M,Y	1.0	64	4.00	2.90
AHNR2520121R5 □ T	1.5	M,Y	1.0	85	3.20	2.45
AHNR2520122R2 □ T	2.2	M,Y	1.0	120	2.60	2.10
AHNR2520123R3 □ T	3.3	M,Y	1.0	163	1.70	1.70
AHNR2520124R7 □ T	4.7	M,Y	1.0	260	1.60	1.25
AHNR2520126R8 □ T	6.8	M,Y	1.0	366	1.35	1.10
AHNR252012100 □ T	10	M,Y	1.0	480	1.10	0.95
AHNR252012150 □ T	15	M,Y	1.0	774	0.85	0.75
AHNR252012220 □ T	22	M,Y	1.0	1210	0.70	0.61

NOTE:

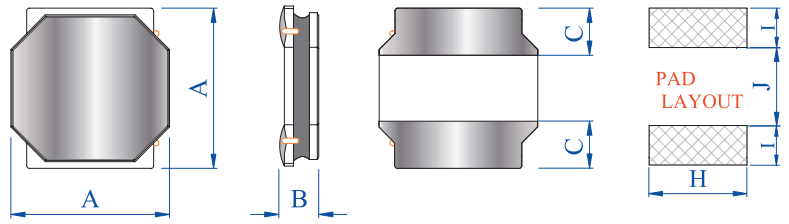
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance M: ±20% • Y: ±30%
- Isat: For Inductance drop 30% from its value without current.
- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).



SMD Power Inductors AHNR Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AHNR3012	3.0 ± 0.2	1.35 MAX.	1.13REF	2.85	1.43	0.52
AHNR3015	3.0 ± 0.2	1.5 MAX.	0.8	2.9	1.1	1.1
AHNR4020	4.0 ± 0.2	2.0 MAX.	1.3	3.7	1.50	1.2

Features

- Fe base metal core provides large saturation current.
- Metallization on ferrite core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit reduces leakage flux and Electro Magnetic Interference (EMI).
- Low DCR decreases power loss, small take up less PCB real estate.
- Automatic production ensures high quality and consistency.

Applications

- Smartphone.
- Blue-ray disc recorders, set top box.
- Notebook, desktop computers, servers.
- Portable gaming devices, personal navigation systems, personal multimedia devices.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AHNR	3012/3015 4020	△△△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25% Y ±30%	T Taping reel B Bulk	"A~Z"

Specification

AHNR3012 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AHNR3012R68 □ T	0.68	Y	1.0	40.0	5.80	3.80
AHNR30121R0 □ T	1.0	M	1.0	54.0	4.00	2.80
AHNR30121R5 □ T	1.5	M	1.0	74.0	3.20	2.00
AHNR30122R2 □ T	2.2	M	1.0	108.0	2.20	1.90
AHNR30123R3 □ T	3.3	M	1.0	150.0	1.70	1.60
AHNR30124R7 □ T	4.7	M	1.0	230.0	1.50	1.40
AHNR30126R8 □ T	6.8	M	1.0	340.0	1.40	1.10
AHNR3012100 □ T	10	M	1.0	460.0	1.00	0.90

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance M: ±20% • Y: ±30%
- Isat: For Inductance drop 30% from its value without current.
- Irms: The value of D.C current when the temperature rise is Δ T ≤ 40°C (Ta=25°C).

SMD Power Inductors AHNR Series



Specification

AHNR3015 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AHNR30151R5 □ T	1.5	M	1.0	95.0	4.50(≤ 35%)	2.50
AHNR30152R2 □ T	2.2	M	1.0	145.0	4.20(≤ 35%)	2.00
AHNR30154R7 □ T	4.7	M	1.0	255.0	3.50(≤ 35%)	1.50
AHNR3015100 □ T	10	M	1.0	510.0	1.80	1.20
AHNR3015220 □ T	22	M	1.0	900.0	1.00	0.80

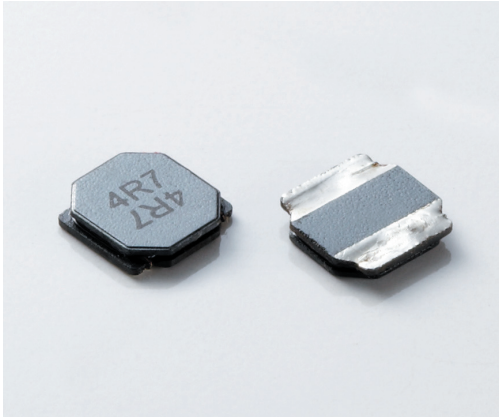
AHNR4020 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AHNR4020R22 □ T	0.22	Y	1.0	13.0	18.70	8.20
AHNR4020R47 □ T	0.47	Y	1.0	22.0	13.40	6.40
AHNR4020R68 □ T	0.68	Y	1.0	26.0	10.00	5.60
AHNR40201R0 □ T	1.0	Y	1.0	32.6	8.70	4.70
AHNR40201R5 □ T	1.5	Y	1.0	39.0	7.20	4.50
AHNR40202R2 □ T	2.2	Y	1.0	60.0	6.10	3.60
AHNR40203R3 □ T	3.3	Y	1.0	72.0	4.70	3.20
AHNR40204R7 □ T	4.7	Y	1.0	108.0	4.00	2.85
AHNR40206R8 □ T	6.8	M,N	1.0	156.0	3.00	2.40
AHNR4020100 □ T	10	M,N	1.0	198.0	2.80	2.00
AHNR4020150 □ T	15	M,N	1.0	365.0	2.20	1.35
AHNR4020220 □ T	22	M,N	1.0	580.0	1.35	1.25

NOTE:

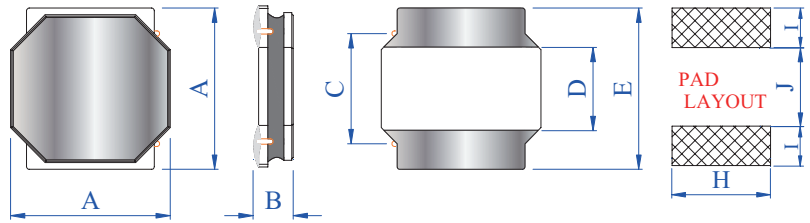
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance M : ±20% • N : ±25% • Y : ±30%
- Isat: For Inductance drop 30% from its value without current.
- Irms: The value of D.C current when the temperature rise is Δ T ≤ 40°C (Ta=25°C).



SMD Power Inductors ATNR Series



Shape & Dimensions



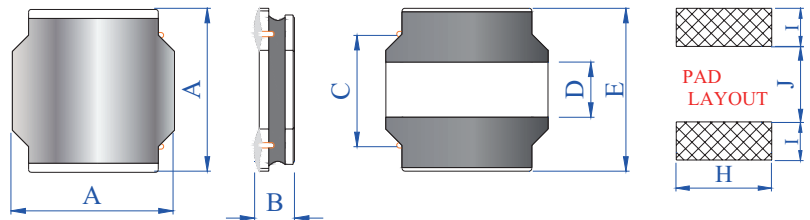
TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR3010	3.0±0.2	0.9±0.1	2.0±0.2	1.0±0.2	3.0±0.2	2.7	0.8	1.4
ATNR4010	4.0±0.2	0.9±0.1	2.7±0.2	1.4±0.2	4.0±0.2	3.7	1.2	1.6
ATNR4018	4.0±0.2	1.8 MAX.	2.7±0.2	1.4±0.2	4.0±0.2	3.7	1.2	1.6
ATNR5012	5.0±0.2	1.1±0.1	3.5±0.2	2.0±0.2	5.0±0.2	4.7	1.4	2.4
ATNR6012	6.0±0.2	1.1±0.1	4.325±0.2	2.65±0.2	6.0±0.2	5.7	1.6	3.1
ATNR6020	6.0±0.2	2.0 MAX.	4.325±0.2	2.65±0.2	6.0±0.2	5.7	1.6	3.1

Features

- Small and Low profile inductor.
- It corresponds to High current.
- Simple and original magnetic shield structure.
- Durable structure against dropping impact.

Applications

- LCD displays.
- STB.
- LCD Monitor / TV.
- Smart meter.
- Tablet PC and other Portable devices.
- DC/DC converters.



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR8040	8.0 ± 0.2	*1 4.2 MAX.	5.6±0.3	3.1±0.3	8.0±0.2	7.7	1.8	3.8
ATNR8040	8.0 ± 0.2	*2 4.0 MAX.	5.6±0.3	3.1±0.3	8.0±0.2	7.7	1.8	3.8

*1) 1R5~6R8=4.2 MAX. *2) 100~220=4.0 MAX.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ATNR	3010 4010/4018 5012 6012/6020 8040	△△△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25% Y ±30%	T Taping reel B Bulk	"A~Z"

Specification

ATNR3010 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR30102R2 □ T	2.2	Y	100	160	1.3	1.3
ATNR30103R3 □ T	3.3	Y	100	220	1.2	1.0
ATNR30104R7 □ T	4.7	Y	100	360	1.1	0.9
ATNR30106R8 □ T	6.8	M,N	100	450	0.9	0.8
ATNR30108R2 □ T	8.2	M,N	100	490	0.7	0.7
ATNR3010100 □ T	10	M,N	100	590	0.6	0.62
ATNR4010 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR40102R2 □ T	2.2	Y	100	143	1.6	1.4
ATNR40103R3 □ T	3.3	Y	100	197	1.4	1.35
ATNR40104R7 □ T	4.7	Y	100	270	1.3	1.3
ATNR40106R8 □ T	6.8	M,N	100	360	1.0	1.0
ATNR40108R2 □ T	8.2	M,N	100	396	0.9	0.9
ATNR4010100 □ T	10	M,N	100	480	0.8	0.8

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 30% from its value without current.
- Tolerance M: ±20% · N: ±25% · Y: ±30%
- Irms: The value of D.C current when the temperature rise is Δ T ≤ 40°C (Ta=25°C).

SMD Power Inductors ATNR Series



Specification

ATNR4018 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR40182R2 □ T	2.2	Y	100	90	2.8	2.3
ATNR40183R3 □ T	3.3	Y	100	110	2.6	2.2
ATNR40184R7 □ T	4.7	Y	100	150	2.2	1.7
ATNR40186R8 □ T	6.8	M,N	100	220	1.8	1.4
ATNR4018100 □ T	10	M,N	100	345	1.4	0.9

ATNR5012 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR50122R2 □ T	2.2	Y	100	105	2.6	2.2
ATNR50123R3 □ T	3.3	Y	100	155	2.1	1.9
ATNR50124R7 □ T	4.7	Y	100	195	1.6	1.5
ATNR50126R8 □ T	6.8	M,N	100	295	1.4	1.2
ATNR5012100 □ T	10	M,N	100	410	1.1	1.0

ATNR6012 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR60122R2 □ T	2.2	Y	100	120	2.60	2.10
ATNR60123R3 □ T	3.3	Y	100	175	2.15	1.70
ATNR60124R7 □ T	4.7	Y	100	220	1.85	1.50
ATNR60125R3 □ T	5.3	M,N	100	240	1.70	1.60
ATNR60126R8 □ T	6.8	M,N	100	280	1.60	1.20
ATNR60128R2 □ T	8.2	M,N	100	320	1.45	1.15
ATNR6012100 □ TB	10	M,N	100	430	1.40	1.10

ATNR6020 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR60202R2 □ T	2.2	Y	100	55	4.0	2.9
ATNR60203R3 □ T	3.3	Y	100	75	3.2	2.5
ATNR60204R7 □ T	4.7	Y	100	90	2.8	2.4
ATNR60206R8 □ T	6.8	M,N	100	115	2.4	2.1
ATNR6020100 □ T	10	M,N	100	175	1.9	1.6

ATNR8040 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR80401R5 □ TA	1.5	Y	100	15	9.0	8.0
ATNR80402R2 □ TA	2.2	Y	100	18	7.5	7.0
ATNR80403R3 □ TA	3.3	Y	100	20	6.5	6.0
ATNR80404R7 □ T	4.7	Y	100	31	5.5	4.1
ATNR80406R8 □ TA	6.8	M,N	100	35	5.0	5.0
ATNR8040100 □ T	10	M,N	100	54	4.0	3.0
ATNR8040150 □ T	15	M,N	100	85	2.5	2.4
ATNR8040220 □ T	22	M,N	100	104	2.6	2.0

NOTE:

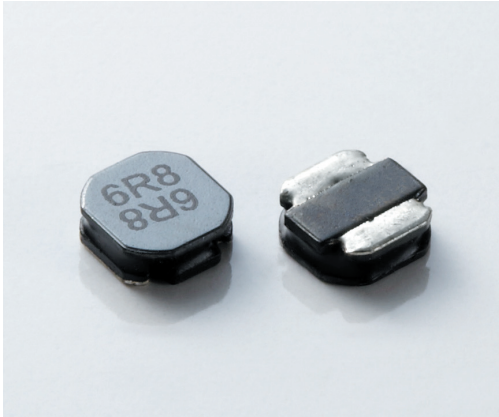
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat:For Inductance drop 30% from its value without current.

- □ Tolerance M: ±20% • N: ±25% • Y: ±30%

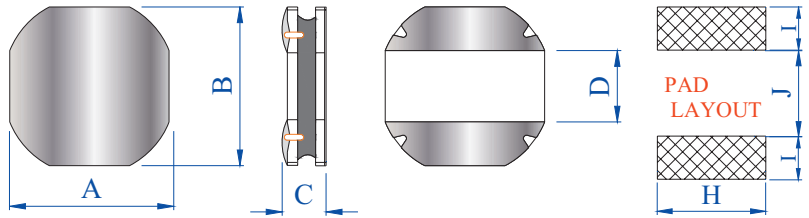
- Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).



SMD Power Inductors ATNR Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR5D20	5.0 ± 0.2	4.8 ± 0.2	2.0 MAX.	2.0 REF.	4.7	1.4	2.4
ATNR6D28	6.0 ± 0.2	5.9 ± 0.2	2.8 MAX.	2.8 TYP.	5.7	1.6	2.8
ATNR7D15	6.5 ± 0.2	7.0 ± 0.2	1.55 MAX.	2.8±0.3	6.7	1.75	3.8

Features

- Small and Low profile inductor.
- It corresponds to High current.
- Simple and original magnetic shield structure.
- Durable structure against dropping impact.

Applications

- LCD displays.
- STB.
- LCD Monitor / TV.
- Smart meter.
- Tablet PC and other Portable devices.
- DC/DC converters.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ATNR	5D20 6D28 7D15	△△△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25% Y ±30%	T Taping reel B Bulk	"A~Z"

Specification

ATNR5D20 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR5D201R0 □ T	1.0	Y	100	43	5.5	4.0
ATNR5D202R2 □ T	2.2	Y	100	130	3.2	2.15
ATNR5D203R3 □ T	3.3	Y	100	150	3.0	2.1
ATNR5D204R7 □ T	4.7	Y	100	176	2.5	1.9
ATNR5D206R8 □ T	6.8	M,N	100	235	2.2	1.7
ATNR5D20100 □ T	10	M,N	100	352	1.8	1.3
ATNR5D20150 □ T	15	M,N	100	492	1.4	1.0
ATNR5D20220 □ T	22	M,N	100	800	1.1	0.8

ATNR6D28 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR6D282R2 □ T	2.2	Y	100	62	8.00	3.00
ATNR6D283R3 □ T	3.3	Y	100	78	6.36	2.70
ATNR6D284R7 □ T	4.7	Y	100	115	5.00	2.30
ATNR6D286R8 □ T	6.8	M,N	100	150	4.33	1.95
ATNR6D28100 □ T	10	M,N	100	210	3.49	1.65
ATNR6D28150 □ T	15	M,N	100	360	3.30	1.30
ATNR6D28220 □ T	22	M,N	100	450	2.90	1.20

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 30% from its value without current.

- □ Tolerance M: ±20% • N: ±25% • Y: 30%

- Irms: The value of D.C current when the temperature rise is Δ T ≤ 40°C (Ta=25°C).

ATNR7D15 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR7D151R0 □ T	1.0	Y	1M	35	3.50	3.00
ATNR7D152R2 □ T	2.2	Y	1M	55	3.20	2.60
ATNR7D153R3 □ T	3.3	Y	1M	65	2.80	2.10
ATNR7D154R7 □ T	4.7	Y	1M	75	2.30	2.00
ATNR7D156R8 □ T	6.8	M,N	1M	106	2.10	1.60
ATNR7D15100 □ T	10	M,N	1M	150	1.50	1.40
ATNR7D15150 □ T	15	M,N	1M	205	1.10	1.10
ATNR7D15220 □ T	22	M,N	1M	320	0.90	0.90

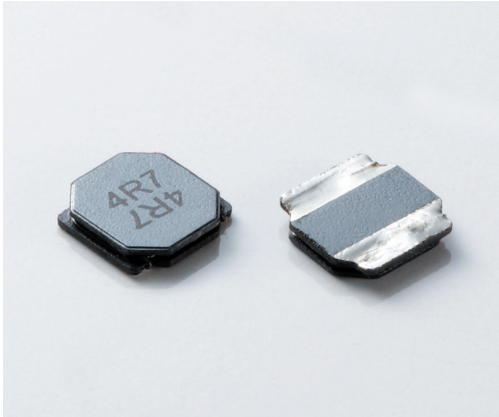
NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 35% from its value without current.

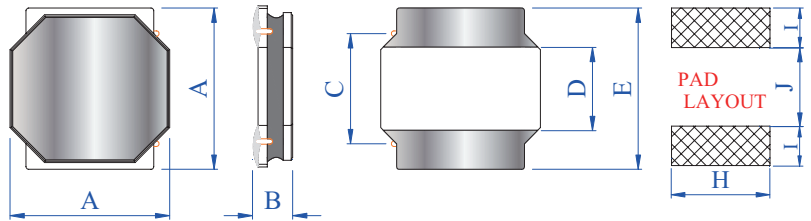
- □ Tolerance M: ±20% • N: ±25% • Y: 30%

- Irms: The value of D.C current when the temperature rise is Δ T ≤ 40°C (Ta=25°C).

SMD Power Inductors ATNR_M Series



Shape & Dimensions



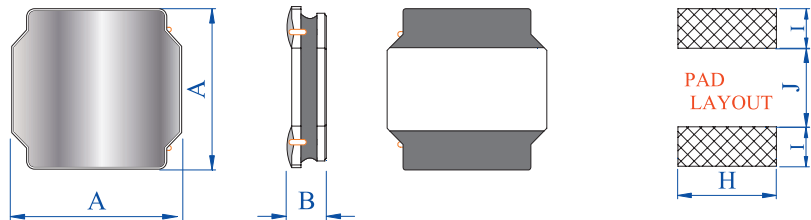
TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR3010M	3.0±0.2	0.9±0.1	2.0±0.2	1.0±0.2	3.0±0.2	2.7	0.8	1.4
ATNR3012M	3.0±0.2	1.1±0.1	2.0±0.2	1.0±0.2	3.0±0.2	2.7	0.8	1.4
ATNR3015M	3.0±0.2	1.5 MAX.	2.0±0.2	1.0±0.2	3.0±0.2	2.7	0.8	1.4
ATNR4010M	4.0±0.2	0.9±0.1	2.7±0.2	1.4±0.2	4.0±0.2	3.7	1.2	1.6
ATNR4012M	4.0±0.2	1.1±0.1	2.7±0.2	1.4±0.2	4.0±0.2	3.7	1.2	1.6
ATNR4018M	4.0±0.2	1.8 MAX.	2.7±0.2	1.4±0.2	4.0±0.2	3.7	1.2	1.6
ATNR5040M	5.0±0.3	4.2 MAX.	3.5 REF.	2.0 REF.	5.0 REF.	5.5	1.5	1.5
ATNR6020M	6.0±0.2	2.0 MAX.	4.325±0.2	2.65±0.2	6.0±0.2	5.7	1.6	3.1
ATNR6045M	6.0±0.2	4.5 MAX.	4.325±0.2	2.65±0.2	6.0±0.2	5.7	1.6	3.1

Features

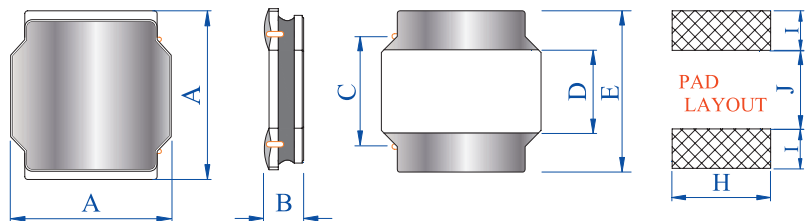
- Small and Low profile inductor.
- It corresponds to High current.
- Simple and original magnetic shield structure.
- Durable structure against dropping impact.

Applications

- LCD displays.
- STB.
- LCD Monitor / TV.
- Smart meter.
- Tablet PC and other Portable devices.
- DC/DC converters.



TYPE	A (mm)	B (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR4030M	4.0 ± 0.3	3.1 MAX.	3.5	1.25	1.8



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR8040M	8.0 ± 0.2	*1 4.2 MAX.	5.6±0.3	3.1±0.3	8.0±0.2	7.7	1.8	3.8
ATNR8040M	8.0 ± 0.2	*2 4.0 MAX.	5.6±0.3	3.1±0.3	8.0±0.2	7.7	1.8	3.8

*1) 0R9~6R8=4.2 MAX. *2) 100~101=4.0 MAX.

Product Identification

①	②	③	④	⑤	⑥	⑦
ATNR	3010△△	△△△	100	M	T	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ATNR	3010/3012/3015	M△△ Type Code	2R2 2.2	M ±20%	T Taping reel	"A~Z"
	4010/4012/4018/4030		100 10	N ±25%	B Bulk	
	5040		220 22	Y ±30%		
	6020/6045					
	8040					



SMD Power Inductors ATNR_M Series

Specification

ATNR3010M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR3010M1R0 □ T	1.0	Y	100	78	1.30	1.40
ATNR3010M1R5 □ T	1.5	Y	100	96	1.20	1.30
ATNR3010M2R2 □ T	2.2	Y	100	114	1.10	1.10
ATNR3010M3R3 □ T	3.3	Y	100	168	0.87	0.94
ATNR3010M4R7 □ T	4.7	Y	100	228	0.75	0.78
ATNR3010M6R8 □ T	6.8	M,N	100	360	0.61	0.63
ATNR3010M100 □ T	10	M,N	100	540	0.50	0.51
ATNR3010M150 □ T	15	M,N	100	888	0.40	0.40
ATNR3010M220 □ T	22	M,N	100	1236	0.35	0.35

ATNR3012M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR3012M1R0 □ T	1.0	Y	100	60	1.50	1.49
ATNR3012M1R5 □ T	1.5	Y	100	72	1.36	1.40
ATNR3012M2R2 □ T	2.2	Y	100	96	1.10	1.20
ATNR3012M3R3 □ T	3.3	Y	100	120	0.91	1.05
ATNR3012M4R7 □ T	4.7	Y	100	156	0.77	0.98
ATNR3012M6R8 □ T	6.8	M,N	100	228	0.65	0.74
ATNR3012M100 □ T	10	M,N	100	348	0.54	0.63
ATNR3012M150 □ T	15	M,N	100	540	0.44	0.48
ATNR3012M220 □ T	22	M,N	100	756	0.37	0.42
ATNR3012M330 □ T	33	M,N	100	1236	0.31	0.33
ATNR3012M470 □ T	47	M,N	100	1740	0.25	0.28

ATNR3015M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR3015M1R0 □ T	1.0	Y	100	36	2.10	2.10
ATNR3015M1R5 □ T	1.5	Y	100	48	1.80	1.82
ATNR3015M2R2 □ T	2.2	Y	100	72	1.48	1.50
ATNR3015M3R3 □ T	3.3	Y	100	96	1.21	1.23
ATNR3015M4R7 □ T	4.7	Y	100	144	1.02	1.04
ATNR3015M6R8 □ T	6.8	M,N	100	192	0.87	0.88
ATNR3015M100 □ T	10	M,N	100	276	0.70	0.71
ATNR3015M150 □ T	15	M,N	100	432	0.56	0.56
ATNR3015M220 □ T	22	M,N	100	624	0.47	0.47
ATNR3015M330 □ T	33	M,N	100	1008	0.39	0.37
ATNR3015M470 □ T	47	M,N	100	1608	0.32	0.30

ATNR4010M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR4010M1R0 □ T	1.0	Y	100	120	1.80	1.05
ATNR4010M2R2 □ T	2.2	Y	100	180	1.15	0.89
ATNR4010M3R3 □ T	3.3	Y	100	216	1.10	0.82
ATNR4010M4R7 □ T	4.7	Y	100	252	0.90	0.75
ATNR4010M6R8 □ T	6.8	M,N	100	360	0.74	0.62
ATNR4010M100 □ T	10	M,N	100	456	0.56	0.60
ATNR4010M150 □ T	15	M,N	100	612	0.47	0.51
ATNR4010M220 □ T	22	M,N	100	1044	0.36	0.40
ATNR4010M330 □ T	33	M,N	100	1848	0.28	0.30
ATNR4010M470 □ T	47	M,N	100	2172	0.24	0.28

ATNR4012M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR4012M1R0 □ T	1.0	Y	100	72	2.50	1.50
ATNR4012M2R2 □ T	2.2	Y	100	108	1.65	1.20
ATNR4012M3R3 □ T	3.3	Y	100	156	1.20	0.98
ATNR4012M4R7 □ T	4.7	Y	100	168	1.05	0.96
ATNR4012M6R8 □ T	6.8	M,N	100	216	0.90	0.84
ATNR4012M100 □ T	10	M,N	100	288	0.74	0.77
ATNR4012M150 □ T	15	M,N	100	480	0.56	0.60
ATNR4012M220 □ T	22	M,N	100	576	0.51	0.54
ATNR4012M330 □ T	33	M,N	100	972	0.40	0.42
ATNR4012M470 □ T	47	M,N	100	1200	0.35	0.37

ATNR4018M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR4018M1R0 □ T	1.0	Y	100	36	4.00	1.83
ATNR4018M2R2 □ T	2.2	Y	100	72	2.70	1.44
ATNR4018M3R3 □ T	3.3	Y	100	84	2.00	1.23
ATNR4018M4R7 □ T	4.7	Y	100	108	1.70	1.20
ATNR4018M6R8 □ T	6.8	M,N	100	132	1.45	1.06
ATNR4018M100 □ T	10	M,N	100	216	1.20	0.84
ATNR4018M150 □ T	15	M,N	100	300	0.94	0.65
ATNR4018M220 □ T	22	M,N	100	432	0.80	0.59
ATNR4018M330 □ T	33	M,N	100	636	0.65	0.49

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance M: ±20% • N: ±25% • Y: ±30%
- Isat: For Inductance drop 30% from its value without current.
- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).

SMD Power Inductors ATNR_M Series



Specification

ATNR4030M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR4030M1R0 □ T	1.0	Y	100	30	3.00	3.00
ATNR4030M2R2 □ T	2.2	Y	100	39	4.90	2.95
ATNR4030M3R3 □ T	3.3	Y	100	52	3.30	2.40
ATNR4030M4R7 □ T	4.7	Y	100	78	2.90	2.00
ATNR4030M100 □ T	10	M,N	100	140	1.85	1.50
ATNR4030M150 □ T	15	M,N	100	250	1.85	1.10
ATNR4030M220 □ T	22	M,N	100	293	1.30	1.00
ATNR4030M330 □ T	33	M,N	100	330±30%	1.00	0.80
ATNR4030M470 □ T	47	M,N	100	845	0.95(≤ 35%)	0.72
ATNR4030M101 □ T	100	M,N	100	1650	0.40	0.40

ATNR5040M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR5040M1R0 □ T	1.0	Y	100	19.5	7.35	4.90
ATNR5040M1R5 □ T	1.5	Y	100	24	6.00	4.30
ATNR5040M2R2 □ T	2.2	Y	100	27	5.70	3.50
ATNR5040M3R3 □ T	3.3	Y	100	39	3.95	3.40
ATNR5040M4R7 □ T	4.7	Y	100	30±20%	4.20	3.20
ATNR5040M5R6 □ T	5.6	M,N	100	65	3.00	2.50
ATNR5040M6R8 □ T	6.8	M,N	100	54	3.30	2.40
ATNR5040M100 □ T	10	M,N	100	85	2.35	2.20
ATNR5040M150 □ T	15	M,N	100	117	2.30	1.80
ATNR5040M220 □ T	22	M,N	100	167.7	1.80	1.40
ATNR5040M330 □ T	33	M,N	100	216	1.30	1.20
ATNR5040M470 □ T	47	M,N	100	320	1.10	1.00
ATNR5040M680 □ T	68	M,N	100	520	0.90	0.80
ATNR5040M101 □ T	100	M,N	100	560±30%	0.75	0.70

ATNR6020M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR6020M0R8 □ T	0.8	Y	100	24.0	5.50	3.80
ATNR6020M1R5 □ T	1.5	Y	100	31.2	4.00	3.20
ATNR6020M2R2 □ T	2.2	Y	100	40.8	3.20	2.70
ATNR6020M3R3 □ T	3.3	Y	100	48.0	2.80	2.60
ATNR6020M4R7 □ T	4.7	Y	100	67.2	2.40	2.00
ATNR6020M6R8 □ T	6.8	M,N	100	102.0	2.00	1.80
ATNR6020M100 □ T	10	M,N	100	150.0	1.60	1.40
ATNR6020M220 □ T	22	M,N	100	348.0	1.05	0.95

ATNR6045M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR6045M1R0 □ T	1.0	Y	100	19	8.50	4.20
ATNR6045M1R3 □ T	1.3	Y	100	21	8.00	4.00
ATNR6045M1R8 □ T	1.8	Y	100	23	7.00	3.70
ATNR6045M2R2 □ T	2.2	Y	100	27	6.00	3.50
ATNR6045M3R3 □ T	3.3	Y	100	31	5.00	3.20
ATNR6045M4R7 □ T	4.7	Y	100	41	4.00	3.00
ATNR6045M6R8 □ T	6.8	M,N	100	52	3.60	2.60
ATNR6045M100 □ T	10	M,N	100	61	3.00	2.50
ATNR6045M150 □ T	15	M,N	100	100	2.30	1.90
ATNR6045M220 □ T	22	M,N	100	149	1.90	1.50
ATNR6045M330 □ T	33	M,N	100	210	1.50	1.40
ATNR6045M470 □ T	47	M,N	100	286	1.30	1.10
ATNR6045M680 □ T	68	M,N	100	429	1.00	0.90
ATNR6045M101 □ T	100	M,N	100	650	0.80	0.70

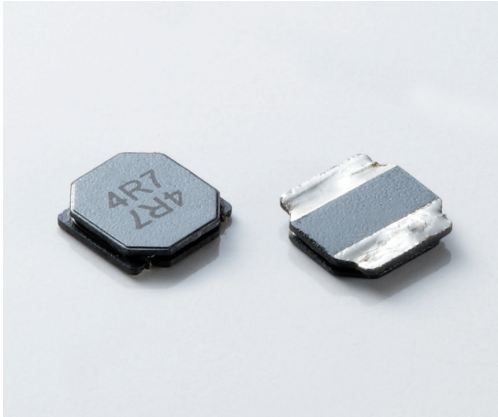
ATNR8040M Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR8040M0R9 □ T	0.9	Y	100	7.8	11.00	7.80
ATNR8040M1R4 □ T	1.4	Y	100	9.1	9.00	7.00
ATNR8040M2R0 □ T	2.0	Y	100	11.7	7.40	6.30
ATNR8040M3R6 □ T	3.6	Y	100	19.5	5.30	4.90
ATNR8040M4R7 □ T	4.7	Y	100	23.4	4.70	4.10
ATNR8040M6R8 □ T	6.8	M,N	100	32.5	4.00	3.70
ATNR8040M100 □ T	10	M,N	100	44.2	3.40	3.10
ATNR8040M150 □ T	15	M,N	100	65.0	2.70	2.40
ATNR8040M220 □ T	22	M,N	100	85.6	2.40	2.20
ATNR8040M330 □ T	33	M,N	100	130.0	1.90	1.70
ATNR8040M470 □ T	47	M,N	100	195.0	1.50	1.40
ATNR8040M680 □ T	68	M,N	100	299.0	1.20	1.10
ATNR8040M101 □ T	100	M,N	100	377.0	1.00	1.00

NOTE:

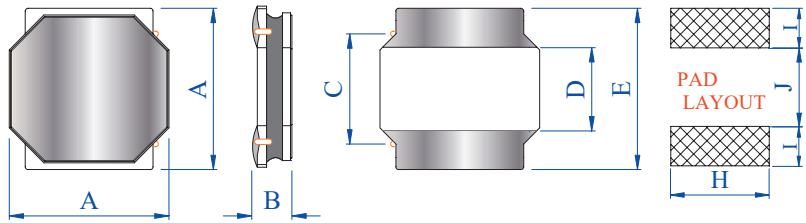
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance M: ±20% • N: ±25% • Y: ±30%
- Isat: For Inductance drop 30% from its value without current.
- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).



SMD Power Inductors ATNR_MH Series



Shape & Dimensions



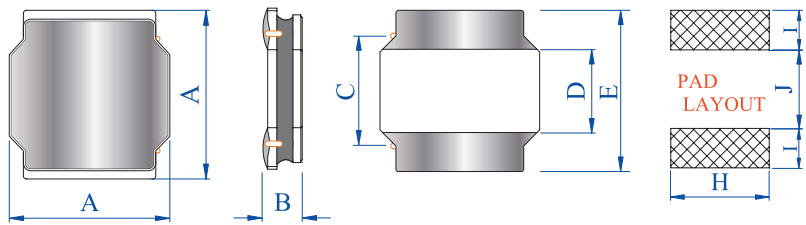
TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR3010MH	3.0±0.2	0.9±0.1	2.0±0.2	1.0±0.2	3.0±0.2	2.7	0.8	1.4
ATNR3012MH	3.0±0.2	1.1±0.1	2.0±0.2	1.0±0.2	3.0±0.2	2.7	0.8	1.4
ATNR4010MH	4.0±0.2	0.9±0.1	2.7±0.2	1.4±0.2	4.0±0.2	3.7	1.2	1.6
ATNR4012MH	4.0±0.2	1.1±0.1	2.7±0.2	1.4±0.2	4.0±0.2	3.7	1.2	1.6
ATNR4018MH	4.0±0.2	1.8 MAX.	2.7±0.2	1.4±0.2	4.0±0.2	3.7	1.2	1.6
ATNR5020MH	5.0±0.2	2.0 MAX.	3.5±0.2	2.0±0.2	5.0±0.2	4.7	1.4	2.4

Features

- Small and Low profile inductor.
- It corresponds to High current.
- Simple and original magnetic shield structure.
- Durable structure against dropping impact.

Applications

- LCD displays.
- STB.
- LCD Monitor / TV.
- Smart meter.
- Tablet PC and other Portable devices.
- DC/DC converters.



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR6028MH	6.0±0.2	2.8 MAX.	4.325±0.2	2.65±0.2	6.0±0.2	5.7	1.6	3.1

Product Identification

1	2	3	4	5	6	7
ATNR	3010△△	△△△	100	M	T	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ATNR	3010/3012 4010/4012/4018 5020 6028	MH△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25% Y ±30%	T Taping reel B Bulk	"A~Z"

Specification

ATNR3010MH Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR3010MH1R2 □ T	1.2	Y	100	78.0	1.70	1.48
ATNR3010MH1R5 □ T	1.5	Y	100	90.0	1.44	1.37
ATNR3010MH2R2 □ T	2.2	Y	100	105.0	1.30	1.30
ATNR3010MH3R3 □ T	3.3	Y	100	156.0	1.00	1.03
ATNR3010MH4R7 □ T	4.7	Y	100	204.0	0.85	0.90
ATNR3010MH6R8 □ T	6.8	M,N	100	300.0	0.70	0.75
ATNR3010MH100 □ T	10	M,N	100	420.0	0.60	0.62
ATNR3010MH150 □ T	15	M,N	100	660.0	0.45	0.48
ATNR3010MH220 □ T	22	M,N	100	924.0	0.38	0.41

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 30% from its value without current.
- □ Tolerance M: ±20% • N: ±25% • Y: ±30%
- Irms: The value of D.C current when the temperature rise is Δ T ≤ 40°C (Ta=25°C).

SMD Power Inductors ATNR_MH Series



Specification

ATNR3012MH Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR3012MH1R0 □ T	1.0	Y	100	57.6	2.20	1.71
ATNR3012MH2R2 □ T	2.2	Y	100	90.0	1.50	1.37
ATNR3012MH3R3 □ T	3.3	Y	100	120.0	1.20	1.21
ATNR3012MH4R7 □ T	4.7	Y	100	156.0	1.00	1.06
ATNR3012MH6R8 □ T	6.8	M,N	100	228.0	0.85	0.89
ATNR3012MH100 □ T	10	M,N	100	324.0	0.73	0.72
ATNR3012MH150 □ T	15	M,N	100	540.0	0.53	0.57
ATNR3012MH220 □ T	22	M,N	100	756.0	0.50	0.50
ATNR4010MH Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR4010MH1R0 □ T	1.0	Y	100	67.2	2.00	1.90
ATNR4010MH2R2 □ T	2.2	Y	100	102.0	1.20	1.50
ATNR4010MH3R3 □ T	3.3	Y	100	120.0	1.10	1.40
ATNR4010MH4R7 □ T	4.7	Y	100	168.0	0.95	1.20
ATNR4010MH6R8 □ T	6.8	M,N	100	240.0	0.80	1.00
ATNR4010MH100 □ T	10	M,N	100	360.0	0.62	0.75
ATNR4010MH150 □ T	15	M,N	100	516.0	0.54	0.60
ATNR4010MH220 □ T	22	M,N	100	684.0	0.45	0.50
ATNR4012MH Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR4012MH1R0 □ T	1.0	Y	100	50.4	2.80	2.20
ATNR4012MH2R2 □ T	2.2	Y	100	72.0	1.60	1.90
ATNR4012MH3R3 □ T	3.3	Y	100	84.0	1.40	1.70
ATNR4012MH4R7 □ T	4.7	Y	100	114.0	1.10	1.50
ATNR4012MH6R8 □ T	6.8	M,N	100	150.0	0.90	1.30
ATNR4012MH100 □ T	10	M,N	100	204.0	0.70	1.10
ATNR4012MH220 □ T	22	M,N	100	480.0	0.50	0.62
ATNR4018MH Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR4018MH1R0 □ T	1.0	Y	100	32.4	4.00	3.20
ATNR4018MH2R2 □ T	2.2	Y	100	50.4	3.00	2.20
ATNR4018MH3R3 □ T	3.3	Y	100	66.0	2.30	2.00
ATNR4018MH4R7 □ T	4.7	Y	100	84.0	2.00	1.70
ATNR4018MH6R8 □ T	6.8	M,N	100	117.6	1.60	1.45
ATNR4018MH100 □ T	10	M,N	100	180.0	1.30	1.20
ATNR4018MH150 □ T	15	M,N	100	252.0	1.10	0.85
ATNR4018MH220 □ T	22	M,N	100	348.0	0.90	0.72
ATNR4018MH330 □ T	33	M,N	100	552.0	0.70	0.55
ATNR5020MH Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR5020MH1R0 □ T	1.0	Y	100	25.2	4.00	3.60
ATNR5020MH1R5 □ T	1.5	Y	100	31.2	3.35	3.20
ATNR5020MH2R2 □ T	2.2	Y	100	42.0	2.90	2.90
ATNR5020MH3R3 □ T	3.3	Y	100	57.6	2.40	2.40
ATNR5020MH4R7 □ T	4.7	Y	100	72.0	2.00	2.00
ATNR5020MH6R8 □ T	6.8	M,N	100	108.0	1.60	1.65
ATNR5020MH100 □ T	10	M,N	100	144.0	1.30	1.45
ATNR5020MH150 □ T	15	M,N	100	198.0	1.10	1.20
ATNR5020MH220 □ T	22	M,N	100	312.0	0.90	1.00
ATNR6028MH Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR6028MH0R9 □ T	0.9	Y	100	16.9	6.70	4.60
ATNR6028MH1R5 □ T	1.5	Y	100	20.8	5.10	4.20
ATNR6028MH2R2 □ T	2.2	Y	100	26.0	4.20	3.70
ATNR6028MH3R0 □ T	3.0	Y	100	29.9	3.60	3.40
ATNR6028MH4R7 □ T	4.7	Y	100	40.3	2.70	3.00
ATNR6028MH6R0 □ T	6.0	M,N	100	52.0	2.50	2.50
ATNR6028MH100 □ T	10	M,N	100	84.5	1.90	1.90
ATNR6028MH150 □ T	15	M,N	100	123.5	1.60	1.80
ATNR6028MH220 □ T	22	M,N	100	175.5	1.30	1.40
ATNR6028MH330 □ T	33	M,N	100	286.0	1.10	1.10
ATNR6028MH470 □ T	47	M,N	100	390.0	1.00	0.92
ATNR6028MH680 □ T	68	M,N	100	546.0	0.80	0.77
ATNR6028MH101 □ T	100	M,N	100	780.0	0.65	0.66

NOTE:

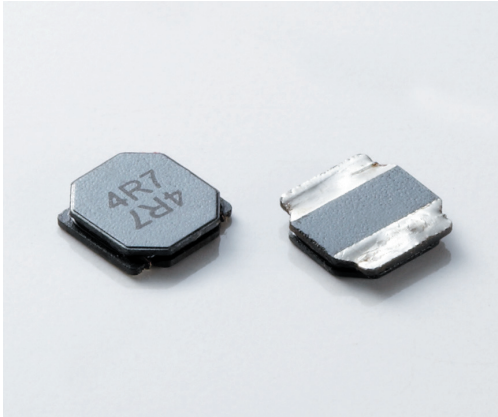
● The operating temperature range is -40°C to +125°C (Including self-temperature rise).
 ● Isat: For Inductance drop 30% from its value without current.

● □ Tolerance M: ±20% • N: ±25% • Y: ±30%

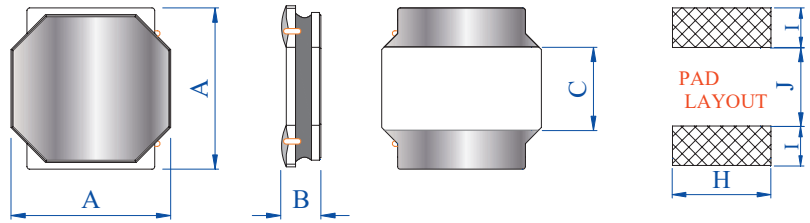
● Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).



SMD Power Inductors ATNR_MA Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR3010MA	3.0±0.2	1.05 MAX.	1.0 REF.	2.7	0.8	1.4
ATNR3015MA	3.0±0.2	1.5 MAX.	1.0 REF.	2.7	0.8	1.4
ATNR4012MA	4.0±0.2	1.2+0.1/-0.15	1.4 REF.	3.7	1.2	1.6
ATNR4018MA	4.0±0.2	1.8±0.2	1.4 REF.	3.7	1.2	1.6
ATNR5020MA	5.0±0.2	2.0±0.2	2.0 REF.	4.7	1.4	2.4
ATNR5040MA	5.0±0.2	4.0±0.2	2.0 REF.	4.7	1.4	2.4
ATNR6020MA	6.0±0.2	2.0±0.2	2.7 REF.	5.7	1.6	3.1

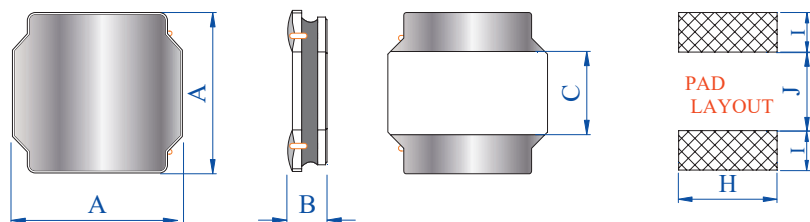
Features

- Small and Low profile inductor.
- It corresponds to High current.
- Simple and original magnetic shield structure.
- Durable structure against dropping impact.
- Applicable at high frequency up to 1 MHz.
- RoHS Compliant.

Applications

- LCD displays.
- STB.
- LCD Monitor / TV.
- Smart meter.
- Tablet PC and other Portable devices.
- DC/DC converters.

Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATNR6028MA	6.0 ± 0.2	2.8 ± 0.2	2.7 REF.	5.7	1.6	3.1
ATNR6045MA	6.0 ± 0.2	4.5+0.2/-0.3	2.7 REF.	5.7	1.6	3.1
ATNR8040MA	8.0 ± 0.2	4.0+0.2/-0.3	3.1 ± 0.3	7.7	2.3	3.8

Product Identification

①	②	③	④	⑤	⑥	⑦
ATNR	3010△△	△△△	100	M	T	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ATNR	3010/3015 4012/4018 5020/5040 6020/6028/6045 8040	MA△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25% Y ±30%	T Taping reel B Bulk	"A~Z"

Specification

ATNR3010MA Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR3010MA1R5 □ T	1.5	Y	1M	85	1.62	1.53
ATNR3010MA2R2 □ T	2.2	Y	1M	100	1.35	1.26
ATNR3010MA3R3 □ T	3.3	Y	1M	165	1.08	0.99
ATNR3010MA4R7 □ T	4.7	Y	1M	205	0.90	0.85
ATNR3010MA6R8 □ T	6.8	M,N	1M	310	0.78	0.76
ATNR3010MA100 □ T	10	M,N	1M	430	0.57	0.56
ATNR3010MA150 □ T	15	M,N	1M	625	0.50	0.49
ATNR3010MA220 □ T	22	M,N	1M	1095	0.42	0.41

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 30% from its value without current.
- □ Tolerance M: ±20% • N: ±25% • Y: ±30%
- Irms: The value of D.C current when the temperature rise is Δ T ≤ 40°C (Ta=25°C).



Specification

ATNR3015MA Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR3015MAR47 □ T	0.47	Y	1M	36	4.23	3.60
ATNR3015MA1R0 □ T	1.0	Y	1M	54	3.06	2.70
ATNR3015MA1R5 □ T	1.5	Y	1M	63	2.70	2.34
ATNR3015MA2R2 □ T	2.2	Y	1M	90	2.07	1.80
ATNR3015MA3R3 □ T	3.3	Y	1M	125	1.71	1.62
ATNR3015MA4R7 □ T	4.7	Y	1M	170	1.42	1.36
ATNR3015MA6R8 □ T	6.8	M,N	1M	235	1.20	1.17
ATNR3015MA100 □ T	10	M,N	1M	360	0.95	0.90
ATNR3015MA150 □ T	15	M,N	1M	550	0.81	0.72
ATNR3015MA220 □ T	22	M,N	1M	770	0.68	0.58

ATNR4012MA Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR4012MA1R0 □ T	1.0	Y	1M	40.0	2.61	2.70
ATNR4012MA1R5 □ T	1.5	Y	1M	51.0	2.07	2.25
ATNR4012MA2R2 □ T	2.2	Y	1M	68.0	1.71	2.07
ATNR4012MA3R3 □ T	3.3	Y	1M	75.0	1.36	1.89
ATNR4012MA4R7 □ T	4.7	Y	1M	110.0	1.18	1.62
ATNR4012MA6R8 □ T	6.8	M,N	1M	165.0	0.97	1.35
ATNR4012MA100 □ T	10	M,N	1M	225.0	0.81	1.08

ATNR4018MA Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR4018MA1R0 □ T	1.0	Y	1M	26.5	3.78	3.42
ATNR4018MA1R5 □ T	1.5	Y	1M	37.0	3.15	2.88
ATNR4018MA2R2 □ T	2.2	Y	1M	47.0	2.70	2.43
ATNR4018MA3R3 □ T	3.3	Y	1M	62.5	2.07	1.89
ATNR4018MA4R7 □ T	4.7	Y	1M	80.0	1.80	1.62
ATNR4018MA6R8 □ T	6.8	M,N	1M	115.0	1.35	1.21
ATNR4018MA100 □ T	10	M,N	1M	185.0	1.26	1.08

ATNR5020MA Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR5020MA1R0 □ T	1.0	Y	1M	18.0	5.40	3.69
ATNR5020MA1R5 □ T	1.5	Y	1M	23.0	4.41	3.15
ATNR5020MA2R2 □ T	2.2	Y	1M	30.0	3.60	2.97
ATNR5020MA3R3 □ T	3.3	Y	1M	50.0	2.70	2.50
ATNR5020MA4R7 □ T	4.7	Y	1M	60.0	2.43	1.98
ATNR5020MA6R8 □ T	6.8	M,N	1M	93.0	1.98	1.62
ATNR5020MA100 □ T	10	M,N	1M	125.0	1.62	1.44
ATNR5020MA150 □ T	15	M,N	1M	195.0	1.26	1.08
ATNR5020MA220 □ T	22	M,N	1M	265.0	1.08	0.90

ATNR5040MA Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR5040MA1R0 □ T	1.0	Y	1M	12.0	7.92	5.31
ATNR5040MA1R5 □ T	1.5	Y	1M	14.0	7.11	4.86
ATNR5040MA2R2 □ T	2.2	Y	1M	20.0	6.12	4.05
ATNR5040MA3R3 □ T	3.3	Y	1M	26.0	4.77	3.78
ATNR5040MA4R7 □ T	4.7	Y	1M	32.0	3.96	2.88
ATNR5040MA6R8 □ T	6.8	M,N	1M	50.0	3.42	2.70
ATNR5040MA100 □ T	10	M,N	1M	70.0	2.70	2.07
ATNR5040MA150 □ T	15	M,N	1M	115.0	2.16	1.62
ATNR5040MA220 □ T	22	M,N	1M	160.0	1.80	1.44

ATNR6020MA Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR6020MA1R0 □ T	1.0	Y	1M	19	5.76	3.78
ATNR6020MA1R5 □ T	1.5	Y	1M	26	4.86	3.33
ATNR6020MA2R2 □ T	2.2	Y	1M	34	4.05	2.97
ATNR6020MA3R3 □ T	3.3	Y	1M	45	3.24	2.52
ATNR6020MA4R7 □ T	4.7	Y	1M	58	2.70	2.07
ATNR6020MA6R8 □ T	6.8	M,N	1M	85	2.34	1.71
ATNR6020MA100 □ T	10	M,N	1M	130	1.89	1.44
ATNR6020MA150 □ T	15	M,N	1M	195	1.44	1.17
ATNR6020MA220 □ T	22	M,N	1M	260	1.17	0.99

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance M: ±20% • N: ±25% • Y: ±30%
- Isat: For Inductance drop 30% from its value without current.
- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).



SMD Power Inductors ATNR_MA Series

Specification

ATNR6028MA Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR6028MA1R0 □ T	1.0	Y	1M	12.0	7.11	5.67
ATNR6028MA1R5 □ T	1.5	Y	1M	15.0	6.30	4.95
ATNR6028MA2R2 □ T	2.2	Y	1M	20.0	5.40	4.50
ATNR6028MA3R3 □ T	3.3	Y	1M	27.0	4.05	3.60
ATNR6028MA4R7 □ T	4.7	Y	1M	36.0	3.60	3.06
ATNR6028MA6R8 □ T	6.8	M,N	1M	48.0	2.88	2.70
ATNR6028MA100 □ T	10	M,N	1M	65.0	2.34	2.25
ATNR6028MA150 □ T	15	M,N	1M	93.0	1.89	1.80
ATNR6028MA220 □ T	22	M,N	1M	135.0	1.53	1.48

ATNR6045MA Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR6045MA1R5 □ T	1.5	Y	1M	12.0	10.80	5.94
ATNR6045MA2R2 □ T	2.2	Y	1M	18.0	8.55	4.68
ATNR6045MA3R3 □ T	3.3	Y	1M	22.0	7.02	3.96
ATNR6045MA4R7 □ T	4.7	Y	1M	30.0	6.12	3.60
ATNR6045MA6R8 □ T	6.8	M,N	1M	42.0	5.13	2.97
ATNR6045MA100 □ T	10	M,N	1M	60.0	4.14	2.34
ATNR6045MA150 □ T	15	M,N	1M	90.0	3.42	1.98
ATNR6045MA220 □ T	22	M,N	1M	130.0	2.97	1.71

ATNR8040MA Series Specification						
Part Number	Inductance(uH)	Inductance Tolerance	Test Freq. (Hz)	DCR (mΩ) ±30%	Saturation Current (A) Max.	Temp. Rise current (A) Max.
ATNR8040MA1R0 □ T	1.0	Y	1M	7.5	12.15	7.29
ATNR8040MA1R5 □ T	1.5	Y	1M	9.7	9.45	6.93
ATNR8040MA2R2 □ T	2.2	Y	1M	12.0	8.73	6.48
ATNR8040MA3R3 □ T	3.3	Y	1M	17.0	7.20	5.31
ATNR8040MA4R7 □ T	4.7	Y	1M	20.0	6.12	4.95
ATNR8040MA6R8 □ T	6.8	M,N	1M	29.0	5.22	4.41
ATNR8040MA100 □ T	10	M,N	1M	38.0	4.50	3.42
ATNR8040MA150 □ T	15	M,N	1M	57.0	3.60	2.88
ATNR8040MA220 □ T	22	M,N	1M	82.0	3.06	2.43

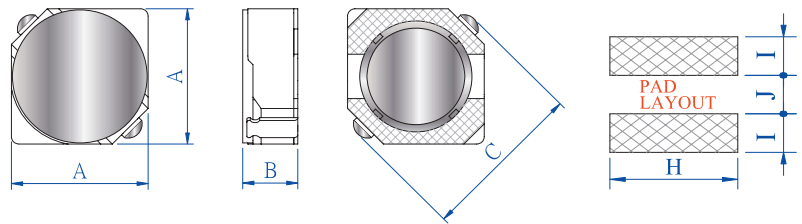
NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance M: ±20% • N: ±25% • Y: ±30%
- Isat: For Inductance drop 30% from its value without current.
- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).

SMD Power Inductors AGPI Series



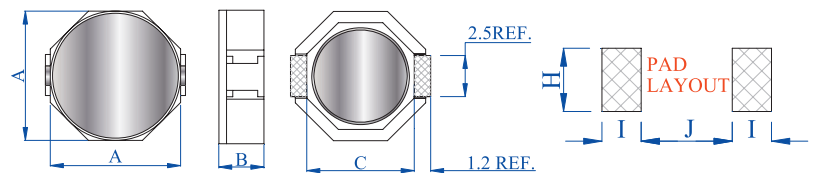
Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AGPI3D16	4.0 MAX.	2.0 MAX.	5.2 MAX.	4.6	1.65	1.0
AGPI4D18	4.7 ± 0.3	2.0 MAX.	6.9 MAX.	5.3	1.90	1.5
AGPI4D28	4.7 ± 0.3	3.0 MAX.	6.9 MAX.	5.3	1.90	1.5
AGPI5D18	5.7 ± 0.3	2.0 MAX.	8.2 MAX.	6.3	2.15	2.0
AGPI5D28	5.7 ± 0.3	3.0 MAX.	8.2 MAX.	6.3	2.15	2.0
AGPI6D28	6.7 ± 0.3	3.0 MAX.	9.5 MAX.	7.3	2.65	2.0
AGPI6D38	6.7 ± 0.3	4.0 MAX.	9.5 MAX.	7.3	2.65	2.0

Features

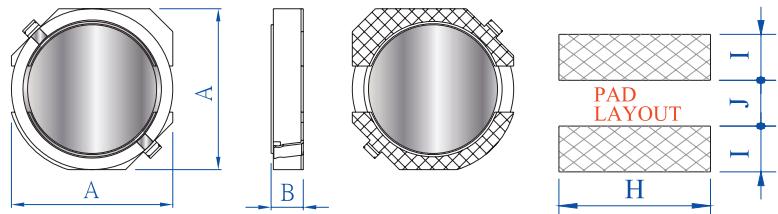
- To be high saturation for surface mounting.
- Surface mounts inductor with high current rating.
- Low resistance to keep power loss minimum.
- Packed in embossed carrier tape and can be used by automatic mounting machine.



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AGPI8D43	8.3 MAX.	4.5 MAX.	6.3 REF.	2.8	2.00	6.1

Applications

- LCD driving circuits (DC-DC converters) such as notebook-sized personal computers, portable terminal equipment, game units.



TYPE	A (mm)	B (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AGPI5012	5.3 MAX.	1.1±0.1	5.5	2.00	1.5
AGPI6012	6.0 ± 0.3	1.1±0.1	6.5	2.25	2.0
AGPI7D15	7.0 ± 0.3	1.5 MAX.	7.4	2.75	1.9
AGPI7D18	7.0 ± 0.3	1.8 MAX.	7.4	2.75	1.9
AGPI7D25	7.0 ± 0.3	2.5 MAX.	7.4	2.75	1.9
AGPI7D28	7.0 ± 0.3	2.8 MAX.	7.4	2.75	1.9
AGPI10D15	10.4 MAX.	1.5 MAX.	10.5	3.75	3.0
AGPI10D25	10.4 MAX.	2.5 MAX.	10.5	3.75	3.0

Product Identification

①	②	③	④	⑤	⑥	⑦
AGPI	3D16△△	△△△	100	N	T	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AGPI	3D16	△△△ Type Code	2R2 2.2	M ±20%	T Taping reel	"A~Z"
	4D18/4D28		100 10	N ±25%	B Bulk	
	5012/5D18/5D28		220 22	Y ±30%		
	6012/6D28/6D38					
	7D15/7D18/7D25/7D28					
	8D43					
	10D15/10D25					



SMD Power Inductors AGPI Series

Specification

AGPI3D16 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI3D161R5 □ T	1.5	Y	100	52	1.55
AGPI3D162R2 □ T	2.2	Y	100	72	1.20
AGPI3D163R3 □ T	3.3	Y	100	85	1.10
AGPI3D164R7 □ T	4.7	Y	100	105	0.90
AGPI3D166R8 □ T	6.8	M,N	100	170	0.73
AGPI3D16100 □ T	10	M,N	100	210	0.55
AGPI3D16150 □ T	15	M,N	100	295	0.45
AGPI3D16220 □ T	22	M,N	100	430	0.40
AGPI3D16330 □ T	33	M,N	100	675	0.32

AGPI4D18 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI4D181R0 □ T	1.0	Y	100	45	1.72
AGPI4D182R2 □ T	2.2	Y	100	75	1.32
AGPI4D182R7 □ T	2.7	Y	100	105	1.28
AGPI4D183R3 □ T	3.3	Y	100	110	1.04
AGPI4D183R9 □ T	3.9	Y	100	155	0.88
AGPI4D184R7 □ T	4.7	Y	100	162	0.84
AGPI4D185R6 □ T	5.6	M,N	100	170	0.80
AGPI4D186R8 □ T	6.8	M,N	100	180	0.76
AGPI4D188R2 □ T	8.2	M,N	100	190	0.68
AGPI4D18100 □ T	10	M,N	100	200	0.61
AGPI4D18120 □ T	12	M,N	100	210	0.56
AGPI4D18150 □ T	15	M,N	100	240	0.50
AGPI4D18180 □ T	18	M,N	100	338	0.48
AGPI4D18220 □ T	22	M,N	100	397	0.41
AGPI4D18270 □ T	27	M,N	100	441	0.35
AGPI4D18330 □ T	33	M,N	100	694	0.32
AGPI4D18390 □ T	39	M,N	100	709	0.30

AGPI4D28 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI4D281R2 □ T	1.2	Y	100	24	2.56
AGPI4D281R8 □ T	1.8	Y	100	28	2.20
AGPI4D282R2 □ T	2.2	Y	100	31	2.04
AGPI4D282R7 □ T	2.7	Y	100	43	1.60
AGPI4D283R3 □ T	3.3	Y	100	49	1.57
AGPI4D283R9 □ T	3.9	Y	100	65	1.44
AGPI4D284R7 □ T	4.7	Y	100	72	1.32
AGPI4D285R6 □ T	5.6	M,N	100	101	1.17
AGPI4D286R8 □ T	6.8	M,N	100	109	1.12
AGPI4D288R2 □ T	8.2	M,N	100	117	1.04
AGPI4D28100 □ T	10	M,N	100	128	1.00
AGPI4D28120 □ T	12	M,N	100	132	0.84
AGPI4D28150 □ T	15	M,N	100	149	0.76
AGPI4D28180 □ T	18	M,N	100	166	0.72
AGPI4D28220 □ T	22	M,N	100	235	0.70
AGPI4D28270 □ T	27	M,N	100	261	0.58
AGPI4D28330 □ T	33	M,N	100	331	0.56
AGPI4D28390 □ T	39	M,N	100	384	0.50
AGPI4D28470 □ T	47	M,N	100	587	0.48
AGPI4D28560 □ T	56	M,N	100	624	0.41
AGPI4D28680 □ T	68	M,N	100	699	0.35
AGPI4D28820 □ T	82	M,N	100	915	0.32
AGPI4D28101 □ T	100	M,N	100	1020	0.29
AGPI4D28121 □ T	120	M,N	100	1270	0.27
AGPI4D28151 □ T	150	M,N	100	1350	0.24
AGPI4D28181 □ T	180	M,N	100	1540	0.22

AGPI5D18 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI5D184R1 □ T	4.1	Y	100	57	1.95
AGPI5D185R4 □ T	5.4	M,N	100	76	1.60
AGPI5D186R2 □ T	6.2	M,N	100	96	1.40
AGPI5D188R9 □ T	8.9	M,N	100	116	1.25
AGPI5D18100 □ T	10	M,N	100	124	1.20
AGPI5D18120 □ T	12	M,N	100	153	1.10
AGPI5D18150 □ T	15	M,N	100	196	0.97
AGPI5D18180 □ T	18	M,N	100	210	0.85
AGPI5D18220 □ T	22	M,N	100	290	0.80
AGPI5D18270 □ T	27	M,N	100	330	0.75
AGPI5D18330 □ T	33	M,N	100	385	0.65
AGPI5D18390 □ T	39	M,N	100	520	0.57
AGPI5D18470 □ T	47	M,N	100	595	0.54
AGPI5D18560 □ T	56	M,N	100	665	0.50
AGPI5D18680 □ T	68	M,N	100	840	0.43
AGPI5D18820 □ T	82	M,N	100	978	0.41
AGPI5D18101 □ T	100	M,N	100	1200	0.36

NOTE:

● The operating temperature range is -40°C to +125°C (Including self-temperature rise).
● Isat: For Inductance drop 35% from its value without current.

● □ Tolerance M: ±20% • N: ±25% • Y: ±30%

SMD Power Inductors AGPI Series



Specification

AGPI5D28 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI5D282R5 □ T	2.5	Y	100	18	2.60
AGPI5D283R0 □ T	3.0	Y	100	24	2.40
AGPI5D284R2 □ T	4.2	Y	100	31	2.20
AGPI5D285R3 □ T	5.3	M,N	100	38	1.90
AGPI5D286R2 □ T	6.2	M,N	100	45	1.80
AGPI5D288R2 □ T	8.2	M,N	100	53	1.60
AGPI5D28100 □ T	10	M,N	100	65	1.30
AGPI5D28120 □ T	12	M,N	100	76	1.20
AGPI5D28150 □ T	15	M,N	100	103	1.10
AGPI5D28180 □ T	18	M,N	100	110	1.00
AGPI5D28220 □ T	22	M,N	100	122	0.90
AGPI5D28270 □ T	27	M,N	100	175	0.85
AGPI5D28330 □ T	33	M,N	100	189	0.75
AGPI5D28390 □ T	39	M,N	100	212	0.70
AGPI5D28470 □ T	47	M,N	100	250	0.62
AGPI5D28560 □ T	56	M,N	100	305	0.58
AGPI5D28680 □ T	68	M,N	100	355	0.52
AGPI5D28820 □ T	82	M,N	100	463	0.46
AGPI5D28101 □ T	100	M,N	100	520	0.42

AGPI6D28 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI6D283R0 □ T	3.0	Y	100	24	3.00
AGPI6D283R9 □ T	3.9	Y	100	27	2.60
AGPI6D285R0 □ T	5.0	M,N	100	31	2.40
AGPI6D286R0 □ T	6.0	M,N	100	35	2.25
AGPI6D287R3 □ T	7.3	M,N	100	54	2.10
AGPI6D288R6 □ T	8.6	M,N	100	58	1.85
AGPI6D28100 □ T	10	M,N	100	65	1.70
AGPI6D28120 □ T	12	M,N	100	70	1.55
AGPI6D28150 □ T	15	M,N	100	84	1.40
AGPI6D28180 □ T	18	M,N	100	95	1.32
AGPI6D28220 □ T	22	M,N	100	128	1.20
AGPI6D28270 □ T	27	M,N	100	142	1.05
AGPI6D28330 □ T	33	M,N	100	165	0.97
AGPI6D28390 □ T	39	M,N	100	210	0.86
AGPI6D28470 □ T	47	M,N	100	238	0.80
AGPI6D28560 □ T	56	M,N	100	277	0.73
AGPI6D28680 □ T	68	M,N	100	304	0.65
AGPI6D28820 □ T	82	M,N	100	390	0.60
AGPI6D28101 □ T	100	M,N	100	535	0.54

AGPI6D38 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI6D383R3 □ T	3.3	Y	100	20	3.50
AGPI6D385R0 □ T	5.0	M,N	100	24	2.90
AGPI6D386R2 □ T	6.2	M,N	100	27	2.50
AGPI6D387R4 □ T	7.4	M,N	100	31	2.30
AGPI6D388R7 □ T	8.7	M,N	100	34	2.20
AGPI6D38100 □ T	10	M,N	100	38	2.00
AGPI6D38120 □ T	12	M,N	100	53	1.70
AGPI6D38150 □ T	15	M,N	100	57	1.60
AGPI6D38180 □ T	18	M,N	100	92	1.50
AGPI6D38220 □ T	22	M,N	100	96	1.30
AGPI6D38270 □ T	27	M,N	100	109	1.20
AGPI6D38330 □ T	33	M,N	100	124	1.10
AGPI6D38390 □ T	39	M,N	100	138	1.00
AGPI6D38470 □ T	47	M,N	100	155	0.95
AGPI6D38560 □ T	56	M,N	100	202	0.85
AGPI6D38680 □ T	68	M,N	100	234	0.75
AGPI6D38820 □ T	82	M,N	100	324	0.70
AGPI6D38101 □ T	100	M,N	100	358	0.65

AGPI8D43 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI8D433R3 □ T	3.3	Y	100	22	5.80
AGPI8D434R7 □ T	4.7	Y	100	22	5.60
AGPI8D436R8 □ T	6.8	M,N	100	38	4.20
AGPI8D43100 □ T	10	M,N	100	45	3.70
AGPI8D43150 □ T	15	M,N	100	53	2.90
AGPI8D43220 □ T	22	M,N	100	75	2.10

NOTE:

● The operating temperature range is -40°C to +125°C (Including self-temperature rise).
● Isat: For Inductance drop 35% from its value without current.

● □ Tolerance M: ±20% • N: ±25% • Y: ±30%



SMD Power Inductors AGPI Series

Specification

AGPI5012 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AGPI50123R3 □ T	3.3	Y	100	264	1.60	1.25
AGPI50124R7 □ T	4.7	Y	100	310	1.50	1.20
AGPI50126R8 □ T	6.8	M,N	100	360	1.30	1.10
AGPI50128R2 □ T	8.2	M,N	100	480	1.12	0.95
AGPI5012100 □ T	10	M,N	100	530	1.05	0.90
AGPI5012120 □ T	12	M,N	100	600	0.92	0.85

AGPI6012 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AGPI60123R0 □ T	3.0	Y	100	120	1.90	2.00
AGPI60124R7 □ T	4.7	Y	100	180	1.80	1.90
AGPI60126R8 □ T	6.8	M,N	100	210	1.60	1.80
AGPI60128R2 □ T	8.2	M,N	100	280	1.30	1.60
AGPI6012100 □ T	10	M,N	100	310	1.10	1.50
AGPI6012120 □ T	12	M,N	100	450	1.00	1.20
AGPI6012150 □ T	15	M,N	100	480	0.95	1.10

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat:For Inductance drop 35% from its value without current.

- □ Tolerance M: ±20% • N: ±25% • Y: ±30%

- Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).

AGPI7D15 Series Specification

Part Number	Inductance(uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI7D153R3 □ T	3.3	Y	100	65	2.80
AGPI7D154R7 □ T	4.7	Y	100	70	2.50
AGPI7D156R8 □ T	6.8	M,N	100	106	2.10
AGPI7D15100 □ T	10	M,N	100	150	1.40
AGPI7D15150 □ T	15	M,N	100	195	1.10
AGPI7D15220 □ T	22	M,N	100	300	0.90

AGPI7D18 Series Specification

Part Number	Inductance(uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI7D182R2 □ T	2.2	Y	100	60	3.80
AGPI7D183R3 □ T	3.3	Y	100	67	3.20
AGPI7D184R7 □ T	4.7	Y	100	96	2.80
AGPI7D185R6 □ T	5.6	M,N	100	102	2.60
AGPI7D186R8 □ T	6.8	M,N	100	142	2.20
AGPI7D188R0 □ T	8.0	M,N	100	146	2.00
AGPI7D18100 □ T	10	M,N	100	148	1.70
AGPI7D18120 □ T	12	M,N	100	221	1.60
AGPI7D18150 □ T	15	M,N	100	276	1.30
AGPI7D18180 □ T	18	M,N	100	350	1.40
AGPI7D18220 □ T	22	M,N	100	400	1.10

AGPI7D25 Series Specification

Part Number	Inductance(uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI7D252R7 □ T	2.7	Y	100	47	4.00
AGPI7D254R7 □ T	4.7	Y	100	70	3.20
AGPI7D256R8 □ T	6.8	M,N	100	77	2.80
AGPI7D258R2 □ T	8.2	M,N	100	92	2.60
AGPI7D25100 □ T	10	M,N	100	120	2.40
AGPI7D25120 □ T	12	M,N	100	130	2.00
AGPI7D25150 □ T	15	M,N	100	147	1.70
AGPI7D25180 □ T	18	M,N	100	193	1.60
AGPI7D25220 □ T	22	M,N	100	216	1.50

AGPI7D28 Series Specification

Part Number	Inductance(uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
AGPI7D281R8 □ T	1.8	Y	100	27	4.50
AGPI7D282R7 □ T	2.7	Y	100	33	4.00
AGPI7D283R3 □ T	3.3	Y	100	36	3.50
AGPI7D284R3 □ T	4.3	Y	100	48	3.20
AGPI7D285R0 □ T	5.0	M,N	100	49	3.00
AGPI7D286R2 □ T	6.2	M,N	100	56	2.80
AGPI7D288R7 □ T	8.7	M,N	100	70	2.60
AGPI7D28100 □ T	10	M,N	100	77	2.40
AGPI7D28120 □ T	12	M,N	100	91	2.20
AGPI7D28150 □ T	15	M,N	100	104	1.90
AGPI7D28180 □ T	18	M,N	100	135	1.80

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat:For Inductance drop 35% from its value without current.

- □ Tolerance M: ±20% • N: ±25% • Y: ±30%

SMD Power Inductors AGPI Series



Specification

AGPI10D15 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AGPI10D153R3 □ T	3.3	Y	100	70	3.40	2.90
AGPI10D154R7 □ T	4.7	Y	100	84	3.6(Ref.)	2.65
AGPI10D156R8 □ T	6.8	M,N	100	115	2.60	2.25
AGPI10D15100 □ T	10	M,N	100	170	2.30	1.75
AGPI10D15120 □ T	12	M,N	100	185	2.10	1.70
AGPI10D15150 □ T	15	M,N	100	220	1.65	1.50
AGPI10D15180 □ T	18	M,N	100	230	1.55	1.35
AGPI10D15220 □ T	22	M,N	100	320	1.45	1.25
AGPI10D15270 □ T	27	M,N	100	340	1.40	1.15
AGPI10D15330 □ T	33	M,N	100	410	1.20	1.00
AGPI10D15390 □ T	39	M,N	100	530	0.95	0.90
AGPI10D15470 □ T	47	M,N	100	580	0.80	0.75

AGPI10D25 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AGPI10D253R3 □ T	3.3	Y	100	46	5.20	4.00
AGPI10D254R7 □ T	4.7	Y	100	54	4.20	3.70
AGPI10D256R8 □ T	6.8	M,N	100	56	3.80	3.50
AGPI10D25100 □ T	10	M,N	100	85	3.00	2.70
AGPI10D25120 □ T	12	M,N	100	116	2.80	2.25
AGPI10D25150 □ T	15	M,N	100	123	2.40	2.15
AGPI10D25180 □ T	18	M,N	100	143	2.35	2.00
AGPI10D25220 □ T	22	M,N	100	180	2.30	1.75
AGPI10D25270 □ T	27	M,N	100	204	2.00	1.60
AGPI10D25330 □ T	33	M,N	100	263	1.60	1.40
AGPI10D25390 □ T	39	M,N	100	292	1.50	1.30
AGPI10D25470 □ T	47	M,N	100	360	1.30	1.20
AGPI10D25560 □ T	56	M,N	100	452	1.20	1.05
AGPI10D25680 □ T	68	M,N	100	509	1.10	1.00

NOTE:

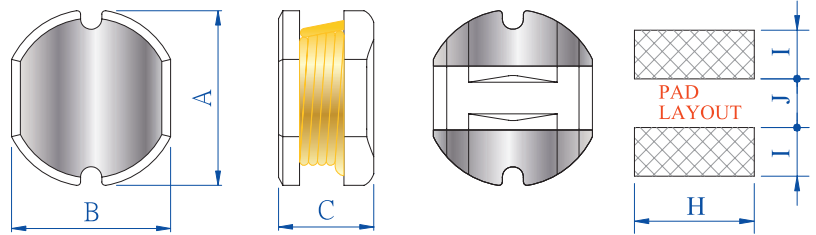
- The operating temperature range is -40°C to +105°C (Including self-temperature rise).
- □ Tolerance M: ±20% • N: ±25% • Y: ±30%
- Isat: For Inductance drop 35% from its value without current.
- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).



SMD Power Inductors ATPI Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATPI0302	3.5 ± 0.3	3.0 ± 0.3	2.1 ± 0.3	3.5	1.5	1.0
ATPI0403	4.5 ± 0.3	4.0 ± 0.3	3.2 ± 0.3	4.5	1.8	1.5
ATPI0504	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.4	5.5	2.2	1.7
ATPI0703	7.8 ± 0.3	7.0 ± 0.3	3.5 ± 0.5	7.5	3.0	2.0
ATPI0705	7.8 ± 0.3	7.0 ± 0.3	5.0 ± 0.5	7.5	3.0	2.0
ATPI1005	10.0 ± 0.4	9.0 ± 0.4	5.4 ± 0.4	9.5	3.8	2.5

Features

- Excellent solderability and high heat resistance.
- Excellent terminal strength construction.
- Packed in embossed carrier tape and can be used by automatic mounting machine.

Applications

- Power supply for VCR, OA equipment, LCD television set, notebook, DC to DC converters, DC to AC inverters, etc.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ATPI	0302	△△△ Type Code	2R2 2.2	K ±10%	T Taping reel	"A~Z"
	0403		100 10	M ±20%	B Bulk	
	0504		220 22			
	0703/0705					
	1005					

Specification

ATPI0302 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI03021R5 □ T	1.5	Y	100	60	2.00
ATPI03022R2 □ T	2.2	Y	100	90	1.60
ATPI03023R3 □ T	3.3	Y	100	100	1.50
ATPI03024R7 □ T	4.7	Y	100	200	1.40
ATPI03026R8 □ T	6.8	K,M	100	300	1.00
ATPI03028R2 □ T	8.2	K,M	100	320	1.00
ATPI0302100 □ T	10	K,M	100	350	1.00
ATPI0302120 □ T	12	K,M	100	400	0.90
ATPI0302150 □ T	15	K,M	100	600	0.60
ATPI0302180 □ T	18	K,M	100	700	0.60
ATPI0302220 □ T	22	K,M	100	1000	0.50
ATPI0302270 □ T	27	K,M	100	1100	0.45
ATPI0302330 □ T	33	K,M	100	1300	0.40
ATPI0302390 □ T	39	K,M	100	1500	0.35
ATPI0302470 □ T	47	K,M	100	2000	0.35
ATPI0302680 □ T	68	K,M	100	2200	0.30
ATPI0302820 □ T	82	K,M	100	2800	0.25
ATPI0302101 □ T	100	K,M	100	3200	0.20
ATPI0302121 □ T	120	K,M	100	4000	0.18
ATPI0302151 □ T	150	K,M	100	4300	0.15
ATPI0302301 □ T	300	K,M	100	7000	0.10
ATPI0302331 □ T	330	K,M	100	7000	0.10

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- □ Tolerance K: ±10% • M: ±20% • Y: ±30%

SMD Power Inductors ATPI Series



Specification

ATPI0403 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI04031R0 □ T	1.0	Y	100	49	2.56
ATPI04031R4 □ T	1.4	Y	100	57	2.52
ATPI04031R8 □ T	1.8	Y	100	64	1.95
ATPI04032R2 □ T	2.2	Y	100	72	1.75
ATPI04032R7 □ T	2.7	Y	100	79	1.58
ATPI04033R3 □ T	3.3	Y	100	87	1.44
ATPI04033R9 □ T	3.9	Y	100	94	1.33
ATPI04034R7 □ T	4.7	Y	100	109	1.15
ATPI04035R6 □ T	5.6	K,M	100	126	0.99
ATPI04036R8 □ T	6.8	K,M	100	132	0.95
ATPI04038R2 □ T	8.2	K,M	100	147	0.84
ATPI0403100 □ T	10	K,M	100	182	1.04
ATPI0403120 □ T	12	K,M	100	210	0.97
ATPI0403150 □ T	15	K,M	100	235	0.85
ATPI0403180 □ T	18	K,M	100	338	0.74
ATPI0403220 □ T	22	K,M	100	378	0.68
ATPI0403270 □ T	27	K,M	100	522	0.62
ATPI0403330 □ T	33	K,M	100	540	0.56
ATPI0403390 □ T	39	K,M	100	587	0.52
ATPI0403470 □ T	47	K,M	100	844	0.44
ATPI0403560 □ T	56	K,M	100	937	0.42
ATPI0403680 □ T	68	K,M	100	1117	0.37

ATPI0504 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0504100 □ T	10	K,M	100	100	1.44
ATPI0504120 □ T	12	K,M	100	120	1.40
ATPI0504150 □ T	15	K,M	100	140	1.30
ATPI0504180 □ T	18	K,M	100	150	1.23
ATPI0504220 □ T	22	K,M	100	180	1.11
ATPI0504270 □ T	27	K,M	100	200	0.97
ATPI0504330 □ T	33	K,M	100	230	0.88
ATPI0504390 □ T	39	K,M	100	320	0.80
ATPI0504470 □ T	47	K,M	100	370	0.72
ATPI0504560 □ T	56	K,M	100	420	0.68
ATPI0504680 □ T	68	K,M	100	460	0.61
ATPI0504820 □ T	82	K,M	100	600	0.58
ATPI0504101 □ T	100	K,M	100	700	0.52
ATPI0504121 □ T	120	K,M	100	930	0.48
ATPI0504151 □ T	150	K,M	100	1100	0.40
ATPI0504181 □ T	180	K,M	100	1380	0.38
ATPI0504221 □ T	220	K,M	100	1570	0.35

ATPI0703 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0703100 □ T	10	K,M	100	81	1.44
ATPI0703120 □ T	12	K,M	100	90	1.39
ATPI0703150 □ T	15	K,M	100	104	1.24
ATPI0703180 □ T	18	K,M	100	111	1.12
ATPI0703220 □ T	22	K,M	100	129	1.07
ATPI0703270 □ T	27	K,M	100	153	0.94
ATPI0703330 □ T	33	K,M	100	170	0.85
ATPI0703390 □ T	39	K,M	100	217	0.74
ATPI0703470 □ T	47	K,M	100	252	0.68
ATPI0703560 □ T	56	K,M	100	282	0.64
ATPI0703680 □ T	68	K,M	100	332	0.59
ATPI0703820 □ T	82	K,M	100	406	0.54
ATPI0703101 □ T	100	K,M	100	481	0.51
ATPI0703121 □ T	120	K,M	100	536	0.49
ATPI0703151 □ T	150	K,M	100	755	0.40
ATPI0703181 □ T	180	K,M	100	1022	0.36
ATPI0703221 □ T	220	K,M	100	1200	0.31
ATPI0703271 □ T	270	K,M	100	1306	0.29
ATPI0703331 □ T	330	K,M	100	1495	0.28

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- □ Tolerance K : ±10% • M : ±20% • Y : ±30%



SMD Power Inductors ATPI Series

Specification

ATPI0705 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0705100 □ T	10	K,M	100	70	2.30
ATPI0705120 □ T	12	K,M	100	80	2.00
ATPI0705150 □ T	15	K,M	100	90	1.80
ATPI0705180 □ T	18	K,M	100	100	1.60
ATPI0705220 □ T	22	K,M	100	110	1.50
ATPI0705270 □ T	27	K,M	100	120	1.30
ATPI0705330 □ T	33	K,M	100	130	1.20
ATPI0705390 □ T	39	K,M	100	160	1.10
ATPI0705470 □ T	47	K,M	100	180	1.10
ATPI0705560 □ T	56	K,M	100	240	0.94
ATPI0705680 □ T	68	K,M	100	280	0.85
ATPI0705820 □ T	82	K,M	100	370	0.78
ATPI0705101 □ T	100	K,M	100	430	0.72
ATPI0705121 □ T	120	K,M	100	470	0.66
ATPI0705151 □ T	150	K,M	100	640	0.58
ATPI0705181 □ T	180	K,M	100	710	0.51
ATPI0705221 □ T	220	K,M	100	960	0.49
ATPI0705271 □ T	270	K,M	100	1110	0.42
ATPI0705331 □ T	330	K,M	100	1260	0.40
ATPI0705391 □ T	390	K,M	100	1770	0.36
ATPI0705471 □ T	470	K,M	100	1960	0.34

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- □ Tolerance K: ±10% • M: ±20%

ATPI1005 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI1005100 □ T	10	K,M	100	60	2.60
ATPI1005120 □ T	12	K,M	100	70	2.45
ATPI1005150 □ T	15	K,M	100	80	2.27
ATPI1005180 □ T	18	K,M	100	90	2.15
ATPI1005220 □ T	22	K,M	100	100	1.95
ATPI1005270 □ T	27	K,M	100	110	1.76
ATPI1005330 □ T	33	K,M	100	120	1.50
ATPI1005390 □ T	39	K,M	100	140	1.37
ATPI1005470 □ T	47	K,M	100	170	1.28
ATPI1005560 □ T	56	K,M	100	190	1.17
ATPI1005680 □ T	68	K,M	100	220	1.11
ATPI1005820 □ T	82	K,M	100	250	1.00
ATPI1005101 □ T	100	K,M	100	350	0.97
ATPI1005121 □ T	120	K,M	100	400	0.89
ATPI1005151 □ T	150	K,M	100	470	0.78
ATPI1005181 □ T	180	K,M	100	630	0.72
ATPI1005221 □ T	220	K,M	100	730	0.66
ATPI1005271 □ T	270	K,M	100	970	0.57
ATPI1005331 □ T	330	K,M	100	1150	0.52
ATPI1005391 □ T	390	K,M	100	1300	0.48
ATPI1005471 □ T	470	K,M	100	1480	0.42
ATPI1005561 □ T	560	K,M	100	1900	0.33
ATPI1005681 □ T	680	K,M	100	2250	0.28
ATPI1005821 □ T	820	K,M	100	2550	0.24

NOTE:

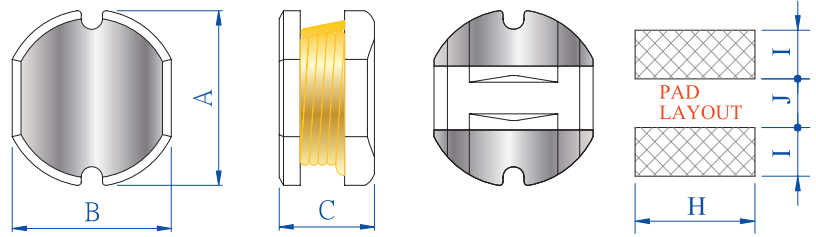
- The operating temperature range is -40°C to +105°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- □ Tolerance K: ±10% • M: ±20%

SMD Power Inductors ATPI_HF Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ATPI0315HF	3.5 ± 0.3	3.0 ± 0.3	1.6 ± 0.3	3.0	1.25	1.0
ATPI0302HF	3.5 ± 0.3	3.0 ± 0.3	2.1 ± 0.3	3.5	1.5	1.0
ATPI0403HF	4.5 ± 0.3	4.0 ± 0.3	3.2 ± 0.3	4.5	1.8	1.5
ATPI0504HF	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.4	5.5	2.2	1.7
ATPI0703HF	7.8 ± 0.3	7.0 ± 0.3	3.5 ± 0.5	7.5	3.0	2.0
ATPI0705HF	7.8 ± 0.3	7.0 ± 0.3	5.0 ± 0.5	7.5	3.0	2.0
ATPI1006HF	10.0 ± 0.4	9.0 ± 0.4	6.5 ± 0.4	9.0	3.4	3.2

Features

- Applicable at high frequency.
- Excellent solderability and high heat resistance.
- Excellent terminal strength construction.
- Packed in embossed carrier tape and can be used by automatic mounting machine.

Applications

- Power supply for VCR, OA equipment, LCD television set, notebook, DC to DC converters, DC to AC inverters, etc.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ATPI	0315/0302 0403 0504 0703/0705 1006	HF△ Type Code	2R2 2.2 100 10 220 22	K ±10% M ±20%	T Taping reel B Bulk	"A~Z"

Specification

ATPI0315HF Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) ±30%	Saturation Current (A) Max.
ATPI0315HF2R2 □ T	2.2	Y	1	100	0.79
ATPI0315HF3R3 □ T	3.3	Y	1	110	0.73
ATPI0315HF4R7 □ T	4.7	Y	1	150	0.65
ATPI0315HF5R6 □ T	5.6	M	1	150	0.60
ATPI0315HF6R8 □ T	6.8	M	1	200	0.77
ATPI0315HF100 □ T	10	K,M	1	300	0.45
ATPI0315HF150 □ T	15	K,M	1	580	0.30
ATPI0315HF220 □ T	22	K,M	1	710	0.25
ATPI0315HF330 □ T	33	K,M	1	1100	0.20
ATPI0315HF390 □ T	39	K,M	1	1300	0.17
ATPI0315HF470 □ T	47	K,M	1	1300	0.17
ATPI0315HF680 □ T	68	K,M	1	2200	0.13
ATPI0315HF101 □ T	100	K,M	1	3500	0.10
ATPI0315HF221 □ T	220	K,M	1	10920(Max.)	0.07

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- □ Tolerance K: ±10% • M: ±20% • Y: ±30%



SMD Power Inductors ATPI_HF Series

Specification

ATPI0302HF Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0302HF1R0 □ T	1.0	Y	7.96	70	2.08
ATPI0302HF1R4 □ T	1.4	Y	7.96	90	1.86
ATPI0302HF1R5 □ T	1.5	Y	7.96	110	1.80
ATPI0302HF1R8 □ T	1.8	Y	7.96	110	1.80
ATPI0302HF2R2 □ T	2.2	Y	7.96	130	1.39
ATPI0302HF2R7 □ T	2.7	Y	7.96	140	1.32
ATPI0302HF3R3 □ T	3.3	Y	7.96	170	1.25
ATPI0302HF3R9 □ T	3.9	Y	7.96	190	1.20
ATPI0302HF4R7 □ T	4.7	Y	7.96	210	1.13
ATPI0302HF5R6 □ T	5.6	M	7.96	220	0.91
ATPI0302HF6R8 □ T	6.8	M	7.96	250	0.85
ATPI0302HF7R0 □ T	7.0	M	7.96	280	0.82
ATPI0302HF8R2 □ T	8.2	M	7.96	280	0.82
ATPI0302HF100 □ T	10	K,M	2.52	320	0.74
ATPI0302HF120 □ T	12	K,M	2.52	350	0.64
ATPI0302HF150 □ T	15	K,M	2.52	400	0.60
ATPI0302HF180 □ T	18	K,M	2.52	480	0.54
ATPI0302HF220 □ T	22	K,M	2.52	580	0.50
ATPI0302HF270 □ T	27	K,M	2.52	650	0.43
ATPI0302HF330 □ T	33	K,M	2.52	800	0.40
ATPI0302HF390 □ T	39	K,M	2.52	900	0.37
ATPI0302HF470 □ T	47	K,M	2.52	1190	0.36
ATPI0302HF500 □ T	50	K,M	2.52	1220	0.33
ATPI0302HF560 □ T	56	K,M	2.52	1270	0.31
ATPI0302HF680 □ T	68	K,M	2.52	1730	0.30
ATPI0302HF750 □ T	75	K,M	2.52	1900	0.29
ATPI0302HF820 □ T	82	K,M	2.52	1990	0.28
ATPI0302HF101 □ T	100	K,M	1(KHz)	2520	0.25
ATPI0302HF121 □ T	120	K,M	1(KHz)	2900	0.20
ATPI0302HF151 □ T	150	K,M	1(KHz)	3360	0.19
ATPI0302HF181 □ T	180	K,M	1(KHz)	5100	0.17
ATPI0302HF221 □ T	220	K,M	1(KHz)	5800	0.16
ATPI0302HF271 □ T	270	K,M	1(KHz)	7800	0.14

ATPI0403HF Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0403HF1R0 □ T	1.0	Y	7.96	33	3.80
ATPI0403HF1R2 □ T	1.2	Y	7.96	35	3.50
ATPI0403HF1R4 □ T	1.4	Y	7.96	38	3.30
ATPI0403HF1R8 □ T	1.8	Y	7.96	42	2.91
ATPI0403HF2R2 □ T	2.2	Y	7.96	47	2.60
ATPI0403HF2R7 □ T	2.7	Y	7.96	52	2.43
ATPI0403HF3R3 □ T	3.3	Y	7.96	58	2.15
ATPI0403HF3R9 □ T	3.9	Y	7.96	76	1.98
ATPI0403HF4R7 □ T	4.7	Y	7.96	94	1.70
ATPI0403HF5R6 □ T	5.6	M	7.96	101	1.60
ATPI0403HF6R2 □ T	6.2	M	7.96	110	1.50
ATPI0403HF6R8 □ T	6.8	M	7.96	117	1.41
ATPI0403HF8R2 □ T	8.2	M	7.96	132	1.26
ATPI0403HF100 □ T	10	K,M	2.52	182	1.15
ATPI0403HF120 □ T	12	K,M	2.52	210	1.05
ATPI0403HF150 □ T	15	K,M	2.52	235	0.92
ATPI0403HF180 □ T	18	K,M	2.52	338	0.84
ATPI0403HF220 □ T	22	K,M	2.52	378	0.76
ATPI0403HF270 □ T	27	K,M	2.52	522	0.71
ATPI0403HF330 □ T	33	K,M	2.52	540	0.64
ATPI0403HF390 □ T	39	K,M	2.52	587	0.59
ATPI0403HF470 □ T	47	K,M	2.52	844	0.54
ATPI0403HF560 □ T	56	K,M	2.52	937	0.50
ATPI0403HF680 □ T	68	K,M	2.52	1117	0.46
ATPI0403HF101 □ T	100	K,M	1(KHz)	2000	0.40
ATPI0403HF121 □ T	120	K,M	1(KHz)	1800	0.38
ATPI0403HF151 □ T	150	K,M	1(KHz)	2800	0.30
ATPI0403HF181 □ T	180	K,M	1(KHz)	3200	0.25
ATPI0403HF221 □ T	220	K,M	1(KHz)	4000	0.15
ATPI0403HF331 □ T	330	K,M	1(KHz)	5850	0.21

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat:For Inductance drop 10% from its value without current.

- □ Tolerance K : ±10% • M : ±20% • Y : ±30%

SMD Power Inductors ATPI_HF Series



Specification

ATPI0504HF Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0504HF1R8 □ T	1.8	Y	7.96	20.0	3.50
ATPI0504HF2R2 □ T	2.2	Y	7.96	23.0	3.20
ATPI0504HF3R3 □ T	3.3	Y	7.96	31.4	2.59
ATPI0504HF3R5 □ T	3.5	Y	7.96	30.0	2.40
ATPI0504HF4R7 □ T	4.7	Y	7.96	37.2	2.30
ATPI0504HF6R8 □ T	6.8	M	7.96	57.0	1.80
ATPI0504HF100 □ T	10	K,M	2.52	100	1.44
ATPI0504HF120 □ T	12	K,M	2.52	120	1.40
ATPI0504HF150 □ T	15	K,M	2.52	140	1.30
ATPI0504HF180 □ T	18	K,M	2.52	150	1.23
ATPI0504HF220 □ T	22	K,M	2.52	180	1.11
ATPI0504HF270 □ T	27	K,M	2.52	200	0.97
ATPI0504HF330 □ T	33	K,M	2.52	230	0.88
ATPI0504HF390 □ T	39	K,M	2.52	320	0.80
ATPI0504HF470 □ T	47	K,M	2.52	370	0.72
ATPI0504HF560 □ T	56	K,M	2.52	420	0.68
ATPI0504HF680 □ T	68	K,M	2.52	460	0.61
ATPI0504HF820 □ T	82	K,M	2.52	600	0.58
ATPI0504HF101 □ T	100	K,M	1(KHz)	700	0.52
ATPI0504HF121 □ T	120	K,M	1(KHz)	930	0.48
ATPI0504HF151 □ T	150	K,M	1(KHz)	1100	0.40
ATPI0504HF181 □ T	180	K,M	1(KHz)	1380	0.38
ATPI0504HF221 □ T	220	K,M	1(KHz)	1570	0.35
ATPI0504HF271 □ T	270	K,M	1(KHz)	1850	0.29
ATPI0504HF331 □ T	330	K,M	1(KHz)	2000	0.28
ATPI0504HF391 □ T	390	K,M	1(KHz)	2600	0.26
ATPI0504HF471 □ T	470	K,M	1(KHz)	3000	0.12
ATPI0504HF561 □ T	560	K,M	1(KHz)	4190	0.10
ATPI0504HF681 □ T	680	K,M	1(KHz)	4440	0.08
ATPI0504HF821 □ T	820	K,M	1(KHz)	5120	0.05
ATPI0504HF102 □ T	1000	K,M	1(KHz)	10000	0.03

ATPI0703HF Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0703HF2R2 □ T	2.2	Y	7.96	30	3.20
ATPI0703HF4R7 □ T	4.7	Y	7.96	40	1.60
ATPI0703HF100 □ T	10	K,M	2.52	80	1.44
ATPI0703HF120 □ T	12	K,M	2.52	90	1.39
ATPI0703HF150 □ T	15	K,M	2.52	100	1.24
ATPI0703HF180 □ T	18	K,M	2.52	110	1.12
ATPI0703HF220 □ T	22	K,M	2.52	130	1.07
ATPI0703HF270 □ T	27	K,M	2.52	150	0.94
ATPI0703HF330 □ T	33	K,M	2.52	170	0.85
ATPI0703HF390 □ T	39	K,M	2.52	220	0.74
ATPI0703HF470 □ T	47	K,M	2.52	250	0.68
ATPI0703HF560 □ T	56	K,M	2.52	280	0.64
ATPI0703HF680 □ T	68	K,M	2.52	330	0.59
ATPI0703HF820 □ T	82	K,M	2.52	410	0.54
ATPI0703HF101 □ T	100	K,M	1(KHz)	480	0.51
ATPI0703HF121 □ T	120	K,M	1(KHz)	540	0.49
ATPI0703HF151 □ T	150	K,M	1(KHz)	750	0.40
ATPI0703HF181 □ T	180	K,M	1(KHz)	1020	0.36
ATPI0703HF221 □ T	220	K,M	1(KHz)	1200	0.31
ATPI0703HF271 □ T	270	K,M	1(KHz)	1310	0.29
ATPI0703HF331 □ T	330	K,M	1(KHz)	1500	0.28
ATPI0703HF561 □ T	560	K,M	1(KHz)	2500	0.14

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat:For Inductance drop 10% from its value without current.

- □ Tolerance K: ±10% • M: ±20% • Y: ±30%



SMD Power Inductors ATPI_HF Series

Specification

ATPI0705HF Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ATPI0705HF1R4 □ T	1.4	Y	7.96	20	3.70
ATPI0705HF1R5 □ T	1.5	Y	7.96	20	3.70
ATPI0705HF1R8 □ T	1.8	Y	7.96	20	3.70
ATPI0705HF2R2 □ T	2.2	Y	7.96	20	3.70
ATPI0705HF2R7 □ T	2.7	Y	7.96	20	3.70
ATPI0705HF3R0 □ T	3.0	Y	7.96	25	3.70
ATPI0705HF3R3 □ T	3.3	Y	7.96	30	3.70
ATPI0705HF3R9 □ T	3.9	Y	7.96	30	3.70
ATPI0705HF4R7 □ T	4.7	Y	7.96	40	3.50
ATPI0705HF5R6 □ T	5.6	M	7.96	40	3.30
ATPI0705HF6R8 □ T	6.8	M	7.96	40	3.10
ATPI0705HF8R2 □ T	8.2	M	7.96	50	2.70
ATPI0705HF100 □ T	10	K,M	2.52	70	2.30
ATPI0705HF120 □ T	12	K,M	2.52	80	2.00
ATPI0705HF150 □ T	15	K,M	2.52	90	1.80
ATPI0705HF180 □ T	18	K,M	2.52	100	1.60
ATPI0705HF220 □ T	22	K,M	2.52	110	1.50
ATPI0705HF270 □ T	27	K,M	2.52	120	1.30
ATPI0705HF330 □ T	33	K,M	2.52	130	1.20
ATPI0705HF390 □ T	39	K,M	2.52	160	1.10
ATPI0705HF470 □ T	47	K,M	2.52	180	1.10
ATPI0705HF560 □ T	56	K,M	2.52	240	0.94
ATPI0705HF680 □ T	68	K,M	2.52	280	0.85
ATPI0705HF820 □ T	82	K,M	2.52	370	0.78
ATPI0705HF101 □ T	100	K,M	1(KHz)	430	0.72
ATPI0705HF121 □ T	120	K,M	1(KHz)	470	0.66
ATPI0705HF151 □ T	150	K,M	1(KHz)	640	0.58
ATPI0705HF181 □ T	180	K,M	1(KHz)	710	0.51
ATPI0705HF221 □ T	220	K,M	1(KHz)	960	0.49
ATPI0705HF271 □ T	270	K,M	1(KHz)	1110	0.42
ATPI0705HF331 □ T	330	K,M	1(KHz)	1260	0.40
ATPI0705HF391 □ T	390	K,M	1(KHz)	1770	0.36
ATPI0705HF471 □ T	470	K,M	1(KHz)	1960	0.34
ATPI0705HF561 □ T	560	K,M	1(KHz)	2410	0.32

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat:For Inductance drop 10% from its value without current.

- □ Tolerance K: ±10% • M: ±20% • Y: ±30%

ATPI1006HF Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (Ω) Max.	Saturation Current (A) Max.
ATPI1006HF220 □ T	22	K,M	2.52(MHz)	0.080	3.80
ATPI1006HF471 □ T	470	K,M	1	1.421	0.82
ATPI1006HF102 □ T	1000	K,M	1	2.90	0.60
ATPI1006HF122 □ T	1200	K,M	1	3.50	0.50
ATPI1006HF152 □ T	1500	K,M	1	3.80	0.60
ATPI1006HF202 □ T	2000	K,M	1	6.60	0.40
ATPI1006HF222 □ T	2200	K,M	1	8.00	0.40
ATPI1006HF602 □ T	6000	K,M	1	14.00	0.27
ATPI1006HF822 □ T	8200	K,M	1	50.00	0.20

NOTE:

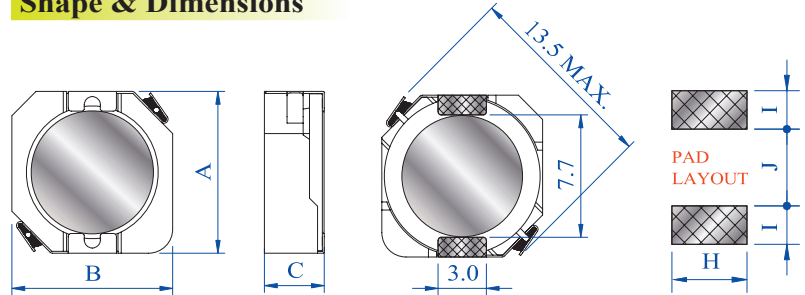
- The operating temperature range is -40°C to +105°C (Including self-temperature rise).
- Isat:For Inductance drop 10% from its value without current.

- □ Tolerance K: ±10% • M: ±20%

SMD Power Inductors AFPI Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AFPI1003	10.5 MAX.	10.3 MAX.	3.1 MAX.	3.6	1.7	7.3
AFPI1004	10.5 MAX.	10.3 MAX.	4.0 MAX.	3.6	1.7	7.3
AFPI1005	10.5 MAX.	10.3 MAX.	5.1 MAX.	3.6	1.7	7.3

Features

- To be high saturation for surface mounting.
- Surface mounts inductor with high current rating.
- Low resistance to keep power loss minimum.
- Packed in embossed carrier tape and can be used by automatic mounting machine.

Applications

- Excellent as VTR, OA equipment, LCD television sets, notebook PC, portable communication equipments, DC/DC converters, etc.

Product Identification

AFPI	1003	△△△	△△△	100	N	T	△
①	②	③	④	⑤	⑥	⑦	
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product	
AFPI	1003 1004 1005	△△△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25% Y ±30%	T Taping reel B Bulk	"A~Z"	

Specification

AFPI1003 Series Specification							
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.	
AFPI10031R5 □ T	1.5	Y	100	11.0	8.00	5.80	
AFPI10032R2 □ T	2.2	Y	100	16.9	6.70	5.10	
AFPI10033R3 □ T	3.3	Y	100	21.0	5.56	4.70	
AFPI10034R7 □ T	4.7	Y	100	30.0	4.65	4.00	
AFPI10036R8 □ T	6.8	M,N	100	35.0	3.84	3.60	
AFPI10038R2 □ T	8.2	M,N	100	50.0	3.54	3.00	
AFPI1003100 □ T	10	M,N	100	59.0	3.18	2.80	
AFPI1003150 □ T	15	M,N	100	91.0	2.60	2.05	
AFPI1003220 □ T	22	M,N	100	143.0	2.16	1.60	
AFPI1003330 □ T	33	M,N	100	202.0	1.74	1.35	
AFPI1003470 □ T	47	M,N	100	299.0	1.43	1.20	
AFPI1003560 □ T	56	M,N	100	325.0	1.36	1.15	
AFPI1003680 □ T	68	M,N	100	429.0	1.22	0.95	
AFPI1003820 □ T	82	M,N	100	494.0	1.14	0.80	
AFPI1003101 □ T	100	M,N	100	683.0	1.02	0.70	
AFPI1003121 □ T	120	M,N	100	754.0	0.89	0.65	
AFPI1003151 □ T	150	M,N	100	871.0	0.84	0.51	

NOTE:

- The operating temperature range is -40°C to +105°C (Including self-temperature rise).
- Isat: For Inductance drop 35% from its value without current.

- □ Tolerance M: ±20% • N: ±25% • Y: ±30%

- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).



SMD Power Inductors AFPI Series

Specification

AFPI1004 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AFPI10041R5 □ T	1.5	Y	100	8.1	10.00	6.50
AFPI10042R5 □ T	2.5	Y	100	10.5	7.50	6.10
AFPI10043R8 □ T	3.8	Y	100	13.0	6.00	5.50
AFPI10045R2 □ T	5.2	M,N	100	22.0	5.50	5.40
AFPI10047R0 □ T	7.0	M,N	100	34.0	4.80	4.50
AFPI1004100 □ T	10	M,N	100	35.0	4.40	3.80
AFPI1004150 □ T	15	M,N	100	50.0	3.60	3.10
AFPI1004220 □ T	22	M,N	100	73.0	2.90	2.50
AFPI1004330 □ T	33	M,N	100	105.0	2.30	2.20
AFPI1004470 □ T	47	M,N	100	128.0	2.10	1.90
AFPI1004680 □ T	68	M,N	100	213.0	1.50	1.42
AFPI1004101 □ T	100	M,N	100	304.0	1.35	1.25
AFPI1004151 □ T	150	M,N	100	506.0	1.15	0.85
AFPI1004221 □ T	220	M,N	100	756.0	0.92	0.70
AFPI1004331 □ T	330	M,N	100	1090.0	0.70	0.52

AFPI1005 Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AFPI10051R0 □ T	1.0	Y	100	7.0	10.00	10.50
AFPI10051R5 □ T	1.5	Y	100	5.8	8.30	10.50
AFPI10052R2 □ T	2.2	Y	100	7.2	7.50	9.25
AFPI10053R3 □ T	3.3	Y	100	10.4	6.50	7.80
AFPI10054R7 □ T	4.7	Y	100	12.3	6.10	6.40
AFPI10056R8 □ T	6.8	M,N	100	18.0	5.40	5.40
AFPI10058R2 □ T	8.2	M,N	100	20.0	5.00	4.85
AFPI1005100 □ T	10	M,N	100	26.0	4.50	4.45
AFPI1005120 □ T	12	M,N	100	33.0	3.80	4.00
AFPI1005150 □ T	15	M,N	100	41.0	3.40	3.60
AFPI1005180 □ T	18	M,N	100	46.0	3.10	3.20
AFPI1005220 □ T	22	M,N	100	61.0	2.95	2.90
AFPI1005270 □ T	27	M,N	100	69.0	2.60	2.70
AFPI1005330 □ T	33	M,N	100	84.0	2.50	2.40
AFPI1005390 □ T	39	M,N	100	106.0	2.25	2.30
AFPI1005470 □ T	47	M,N	100	130.0	2.00	2.00
AFPI1005560 □ T	56	M,N	100	149.0	1.90	1.90
AFPI1005680 □ T	68	M,N	100	201.0	1.60	1.65
AFPI1005820 □ T	82	M,N	100	227.0	1.45	1.50
AFPI1005101 □ T	100	M,N	100	253.0	1.35	1.35
AFPI1005121 □ T	120	M,N	100	303.0	1.18	1.28
AFPI1005151 □ T	150	M,N	100	370.0	1.10	1.12
AFPI1005181 □ T	180	M,N	100	419.0	1.00	1.04
AFPI1005221 □ T	220	M,N	100	500.0	0.94	0.94
AFPI1005271 □ T	270	M,N	100	672.0	0.80	0.84
AFPI1005331 □ T	330	M,N	100	812.0	0.73	0.75
AFPI1005391 □ T	390	M,N	100	953.0	0.70	0.70
AFPI1005471 □ T	470	M,N	100	1289.0	0.54	0.60
AFPI1005561 □ T	560	M,N	100	1430.0	0.52	0.54
AFPI1005681 □ T	680	M,N	100	1599.0	0.51	0.52
AFPI1005821 □ T	820	M,N	100	1768.0	0.48	0.50
AFPI1005102 □ T	1000	M,N	100	1989.0	0.42	0.48

NOTE:

● The operating temperature range is -40°C to +105°C (Including self-temperature rise).
 ● Isat:For Inductance drop 35% from its value without current.

● □ Tolerance M: ±20% • N: ±25% • Y: ±30%

● Irms:The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).

SMD Power Inductors ASPI Series



Features

- Magnetic Shielded surface mount inductor with high current rating.
- Low resistance to keep power loss minimum.

Applications

- Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.

Shape & Dimensions

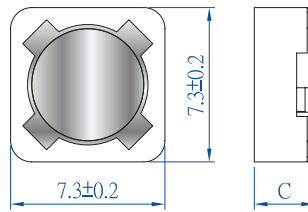


Fig.1

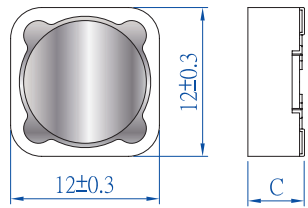
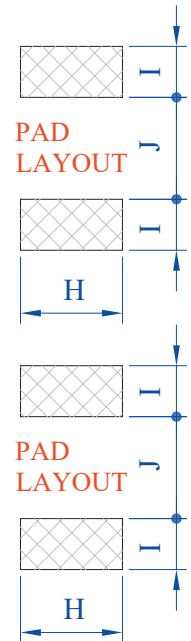


Fig.2



TYPE	Figure	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ASPI0703	1	3.5 MAX.	2.2	1.6	4.8
ASPI0704	1	4.5 MAX.	2.2	1.6	4.8
ASPI1204	2	4.5 MAX.	5.4	2.9	7.0
ASPI1205	2	6.0 MAX.	5.4	2.9	7.0
ASPI1207	2	8.0 MAX.	5.4	2.9	7.0

Product Identification

①	②	③	④	⑤	⑥	⑦
ASPI	1204△△	△△△	100	M	T	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ASPI	0703/0704 1204/1205/1207	△△△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25% Y ±30%	T Taping reel B Bulk	"A-Z"

Specification

ASPI0703 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ASPI0703100 □ T	10	M,N	100	72	1.68
ASPI0703120 □ T	12	M,N	100	98	1.52
ASPI0703150 □ T	15	M,N	100	130	1.33
ASPI0703180 □ T	18	M,N	100	140	1.20
ASPI0703220 □ T	22	M,N	100	190	1.07
ASPI0703270 □ T	27	M,N	100	210	0.96
ASPI0703330 □ T	33	M,N	100	240	0.91
ASPI0703390 □ T	39	M,N	100	320	0.77
ASPI0703470 □ T	47	M,N	100	360	0.76
ASPI0703560 □ T	56	M,N	100	470	0.68
ASPI0703680 □ T	68	M,N	100	520	0.61
ASPI0703820 □ T	82	M,N	100	690	0.57
ASPI0703101 □ T	100	M,N	100	685	0.79
ASPI0703121 □ T	120	M,N	100	890	0.49
ASPI0703151 □ T	150	M,N	100	1270	0.43
ASPI0703181 □ T	180	M,N	100	1450	0.39
ASPI0703221 □ T	220	M,N	100	1650	0.35
ASPI0703271 □ T	270	M,N	100	2310	0.32
ASPI0703331 □ T	330	M,N	100	2620	0.28
ASPI0703391 □ T	390	M,N	100	2940	0.26
ASPI0703471 □ T	470	M,N	100	4180	0.24
ASPI0703561 □ T	560	M,N	100	4670	0.22
ASPI0703681 □ T	680	M,N	100	5730	0.19
ASPI0703821 □ T	820	M,N	100	6540	0.18
ASPI0703102 □ T	1000	M,N	100	9440	0.18

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 35% from its value without current.

- □ Tolerance M: ±20% • N: ±25%



SMD Power Inductors ASPI Series

Specification

ASPI0704 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ASPI0704100 □ T	10	M,N	100	67	3.50
ASPI0704120 □ T	12	M,N	100	58	1.71
ASPI0704150 □ T	15	M,N	100	81	1.47
ASPI0704180 □ T	18	M,N	100	91	1.31
ASPI0704220 □ T	22	M,N	100	110	1.23
ASPI0704270 □ T	27	M,N	100	150	1.12
ASPI0704330 □ T	33	M,N	100	265	1.70
ASPI0704390 □ T	39	M,N	1.0	215	1.80
ASPI0704470 □ T	47	M,N	1.0	280	1.55
ASPI0704560 □ T	56	M,N	100	350	0.75
ASPI0704680 □ T	68	M,N	100	380	0.69
ASPI0704820 □ T	82	M,N	100	430	0.61
ASPI0704101 □ T	100	M,N	100	590	1.18
ASPI0704121 □ T	120	M,N	100	660	0.52
ASPI0704151 □ T	150	M,N	100	880	0.46
ASPI0704181 □ T	180	M,N	100	1030	0.86
ASPI0704221 □ T	220	M,N	100	1170	0.36
ASPI0704271 □ T	270	M,N	100	1640	0.34
ASPI0704331 □ T	330	M,N	100	1860	0.32
ASPI0704391 □ T	390	M,N	100	2850	0.29
ASPI0704471 □ T	470	M,N	100	3010	0.26
ASPI0704561 □ T	560	M,N	100	3620	0.23
ASPI0704681 □ T	680	M,N	100	4630	0.22
ASPI0704821 □ T	820	M,N	100	5200	0.20
ASPI0704102 □ T	1000	M,N	100	6000	0.18

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- □ Tolerance M : ±20% • N : ±25%
- Isat:For Inductance drop 35% from its value without current.

ASPI1204 Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ASPI12043R9 □ T	3.9	Y	100	15	6.50
ASPI12044R7 □ T	4.7	Y	100	18	5.70
ASPI12046R8 □ T	6.8	M,N	100	23	4.90
ASPI12048R2 □ T	8.2	M,N	100	26	4.60
ASPI1204100 □ T	10	M,N	100	45	4.50
ASPI1204120 □ T	12	M,N	100	38	4.00
ASPI1204150 □ T	15	M,N	100	50	3.20
ASPI1204180 □ T	18	M,N	100	57	3.10
ASPI1204220 □ T	22	M,N	100	66	2.90
ASPI1204270 □ T	27	M,N	100	80	2.80
ASPI1204330 □ T	33	M,N	100	97	2.70
ASPI1204390 □ T	39	M,N	100	132	2.10
ASPI1204470 □ T	47	M,N	100	150	1.90
ASPI1204560 □ T	56	M,N	100	190	1.80
ASPI1204680 □ T	68	M,N	100	220	1.50
ASPI1204820 □ T	82	M,N	100	260	1.30
ASPI1204101 □ T	100	M,N	100	308	1.20
ASPI1204121 □ T	120	M,N	100	380	1.10
ASPI1204151 □ T	150	M,N	100	530	0.95
ASPI1204181 □ T	180	M,N	100	620	0.85
ASPI1204221 □ T	220	M,N	100	700	0.80
ASPI1204271 □ T	270	M,N	100	870	0.60
ASPI1204331 □ T	330	M,N	100	990	0.50

NOTE:

- The operating temperature range is -40°C to +105°C (Including self-temperature rise).
- □ Tolerance M : ±20% • N : ±25% • Y:±30%
- Isat:For Inductance drop 25% from its value without current.

SMD Power Inductors ASPI Series



Specification

ASPI1205 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ASPI12051R3 □ T	1.3	Y	100	12	8.00
ASPI12052R1 □ T	2.1	Y	100	14	7.00
ASPI12053R1 □ T	3.1	Y	100	17	6.00
ASPI12054R4 □ T	4.4	Y	100	20	5.00
ASPI12055R8 □ T	5.8	M,N	100	21	4.40
ASPI12057R5 □ T	7.5	M,N	100	24	4.20
ASPI1205100 □ T	10	M,N	100	25	4.00
ASPI1205120 □ T	12	M,N	100	27	3.50
ASPI1205150 □ T	15	M,N	100	30	3.30
ASPI1205180 □ T	18	M,N	100	34	3.00
ASPI1205220 □ T	22	M,N	100	36	2.80
ASPI1205270 □ T	27	M,N	100	51	2.30
ASPI1205330 □ T	33	M,N	100	57	2.10
ASPI1205390 □ T	39	M,N	100	68	2.00
ASPI1205470 □ T	47	M,N	100	75	1.80
ASPI1205560 □ T	56	M,N	100	110	1.70
ASPI1205680 □ T	68	M,N	100	120	1.50
ASPI1205820 □ T	82	M,N	100	140	1.40
ASPI1205101 □ T	100	M,N	100	160	1.30
ASPI1205121 □ T	120	M,N	100	170	1.10
ASPI1205151 □ T	150	M,N	100	230	1.00
ASPI1205181 □ T	180	M,N	100	290	0.90
ASPI1205221 □ T	220	M,N	100	400	0.80
ASPI1205271 □ T	270	M,N	100	460	0.75
ASPI1205331 □ T	330	M,N	100	510	0.68
ASPI1205391 □ T	390	M,N	100	690	0.65
ASPI1205471 □ T	470	M,N	100	770	0.58
ASPI1205561 □ T	560	M,N	100	860	0.54
ASPI1205681 □ T	680	M,N	100	1200	0.48
ASPI1205821 □ T	820	M,N	100	1340	0.43
ASPI1205102 □ T	1000	M,N	100	1530	0.40
ASPI1207 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ASPI12071R2 □ T	1.2	Y	100	7	9.80
ASPI12072R4 □ T	2.4	Y	100	12	8.00
ASPI12073R5 □ T	3.5	Y	100	14	7.50
ASPI12074R7 □ T	4.7	Y	100	16	6.80
ASPI12076R1 □ T	6.1	M,N	100	18	6.60
ASPI12077R6 □ T	7.6	M,N	100	20	5.90
ASPI1207100 □ T	10	M,N	100	22	5.40
ASPI1207120 □ T	12	M,N	100	25	4.90
ASPI1207150 □ T	15	M,N	100	27	4.50
ASPI1207180 □ T	18	M,N	100	40	3.90
ASPI1207220 □ T	22	M,N	100	44	3.60
ASPI1207270 □ T	27	M,N	100	46	3.40
ASPI1207330 □ T	33	M,N	100	65	3.00
ASPI1207390 □ T	39	M,N	100	73	2.75
ASPI1207470 □ T	47	M,N	100	100	2.50
ASPI1207560 □ T	56	M,N	100	110	2.35
ASPI1207680 □ T	68	M,N	100	140	2.10
ASPI1207820 □ T	82	M,N	100	160	1.95
ASPI1207101 □ T	100	M,N	100	220	1.70
ASPI1207121 □ T	120	M,N	100	250	1.60
ASPI1207151 □ T	150	M,N	100	280	1.42
ASPI1207181 □ T	180	M,N	100	350	1.30
ASPI1207221 □ T	220	M,N	100	390	1.16
ASPI1207271 □ T	270	M,N	100	560	1.06
ASPI1207331 □ T	330	M,N	100	640	0.95
ASPI1207391 □ T	390	M,N	100	700	0.88
ASPI1207471 □ T	470	M,N	100	980	0.79
ASPI1207561 □ T	560	M,N	100	1070	0.73
ASPI1207681 □ T	680	M,N	100	1460	0.67
ASPI1207821 □ T	820	M,N	100	1640	0.60
ASPI1207102 □ T	1000	M,N	100	1820	0.55

NOTE:

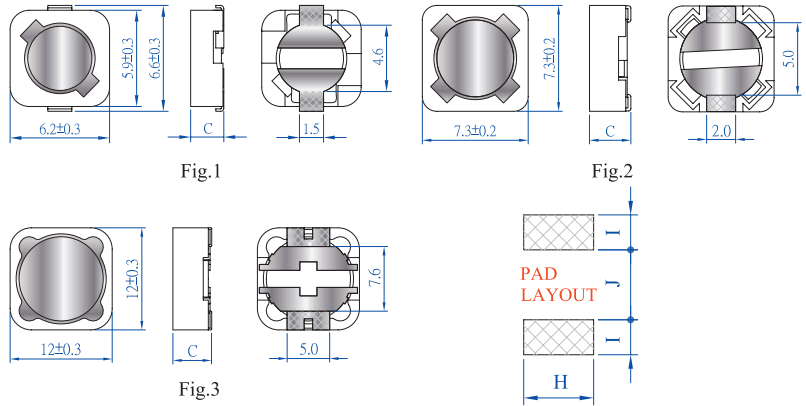
- The operating temperature range is -40°C to +105°C (Including self-temperature rise).
- Isat: For Inductance drop 25% from its value without current.
- Tolerance M: ±20% • N: ±25% • Y: ±30%



SMD Power Inductors ASPI_WE Series



Shape & Dimensions



Features

- Magnetic Shielded surface mount inductor with high current rating.
- Low resistance to keep power loss minimum.

Applications

- Excellent for power line DC-DC conversion applications used in hard disk, notebook computers, LED lighting, Industries and other electronic equipment, etc.

TYPE	Figure	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
ASPI0603WE	1	3.0 MAX.	1.9	1.4	4.6
ASPI0605WE	1	5.0 MAX.	1.9	1.4	4.6
ASPI0703WE	2	3.4 MAX.	2.2	1.6	4.8
ASPI0704WE	2	5.0 MAX.	2.2	1.6	4.8
ASPI1204WE	3	4.5 MAX.	5.4	2.9	7.0
ASPI1205WE	3	6.0 MAX.	5.4	2.9	7.0
ASPI1207WE	3	8.0 MAX.	5.4	2.9	7.0
ASPI1209WE	3	10.0 MAX.	5.4	2.9	7.0

Product Identification

ASPI	1204△△	△△△	100	M	T	△
①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ASPI	0603/0605 0703/0704 1204/1205/1207/1209	WE△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25% Y ±30%	T Taping reel B Bulk	"A~Z"

Specification

ASPI0603WE Series Specification							
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ)	Max. Saturation Current (A)	Max. Temp. Rise current (A)	Max.
ASPI0603WE1R0 □ T	1.0	Y	100	39	4.50	3.50	
ASPI0603WE2R2 □ T	2.2	Y	100	54	3.30	2.90	
ASPI0603WE3R3 □ T	3.3	Y	100	67	3.00	2.80	
ASPI0603WE4R7 □ T	4.7	Y	100	78	2.50	2.65	
ASPI0603WE6R8 □ T	6.8	M,N	100	100	2.00	2.30	
ASPI0603WE100 □ T	10	M,N	100	125	1.60	1.90	
ASPI0603WE150 □ T	15	M,N	100	200	1.40	1.60	
ASPI0603WE220 □ T	22	M,N	100	250	1.10	1.35	
ASPI0603WE270 □ T	27	M,N	100	360	1.00	0.90	
ASPI0603WE330 □ T	33	M,N	100	400	0.90	0.85	
ASPI0603WE470 □ T	47	M,N	100	600	0.74	0.85	
ASPI0603WE101 □ T	100	M,N	100	1060	0.50	0.65	
ASPI0605WE Series Specification							
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ)	Max. Saturation Current (A)	Max. Temp. Rise current (A)	Max.
ASPI0605WE1R0 □ T	1.0	Y	100	34	5.50	5.00	
ASPI0605WE2R2 □ T	2.2	Y	100	49	4.00	3.50	
ASPI0605WE4R7 □ T	4.7	Y	100	65	2.80	2.80	
ASPI0605WE6R8 □ T	6.8	M,N	100	75	2.30	2.50	
ASPI0605WE8R2 □ T	8.2	M,N	100	80	2.10	2.30	
ASPI0605WE100 □ T	10	M,N	100	88	1.80	2.10	
ASPI0605WE220 □ T	22	M,N	100	115	1.30	2.00	
ASPI0605WE470 □ T	47	M,N	100	298	0.80	1.40	

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- □ Tolerance M: ±20% • N: ±25% • Y: ±30%

- Irms: The value of D.C current when the temperature rise is ΔT ≤ 40°C (Ta=25°C).

SMD Power Inductors ASPI_WE Series



Specification

ASPI0703WE Series Specification							
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ)	Max. Saturation Current (A)	Max. Temp. Rise current (A)	Max.
ASPI0703WER54 □ T	0.54	Y	1.0	8.5	9.00		5.60
ASPI0703WE1R0 □ T	1.0	Y	1.0	12.0	6.40		5.37
ASPI0703WE2R2 □ T	2.2	Y	1.0	20.0	4.80		4.02
ASPI0703WE3R3 □ T	3.3	Y	1.0	32.5	4.10		3.10
ASPI0703WE4R7 □ T	4.7	Y	1.0	60.0	4.20		2.32
ASPI0703WE100 □ T	10	M,N	1.0	72.0	2.20		1.83
ASPI0703WE120 □ T	12	M,N	1.0	98.0	2.15		1.73
ASPI0703WE150 □ T	15	M,N	1.0	130.0	1.75		1.51
ASPI0703WE180 □ T	18	M,N	1.0	140.0	1.70		1.41
ASPI0703WE220 □ T	22	M,N	1.0	190.0	1.40		1.38
ASPI0703WE270 □ T	27	M,N	1.0	210.0	1.30		1.27
ASPI0703WE330 □ T	33	M,N	1.0	240.0	1.15		1.22
ASPI0703WE390 □ T	39	M,N	1.0	320.0	1.10		1.03
ASPI0703WE470 □ T	47	M,N	1.0	360.0	1.00		0.85
ASPI0703WE560 □ T	56	M,N	1.0	470.0	0.88		0.84
ASPI0703WE680 □ T	68	M,N	1.0	520.0	0.84		0.74
ASPI0703WE820 □ T	82	M,N	1.0	690.0	0.78		0.69
ASPI0703WE101 □ T	100	M,N	1.0	790.0	0.76		0.62
ASPI0703WE121 □ T	120	M,N	1.0	890.0	0.68		0.60
ASPI0703WE151 □ T	150	M,N	1.0	1270.0	0.53		0.56
ASPI0703WE181 □ T	180	M,N	1.0	1450.0	0.50		0.49
ASPI0703WE221 □ T	220	M,N	1.0	1650.0	0.42		0.43
ASPI0703WE271 □ T	270	M,N	1.0	2310.0	0.39		0.40
ASPI0703WE331 □ T	330	M,N	1.0	2620.0	0.35		0.32
ASPI0703WE391 □ T	390	M,N	1.0	2940.0	0.34		0.30
ASPI0703WE471 □ T	470	M,N	1.0	4180.0	0.31		0.30
ASPI0703WE561 □ T	560	M,N	1.0	4670.0	0.30		0.27
ASPI0703WE681 □ T	680	M,N	1.0	5730.0	0.22		0.22
ASPI0703WE821 □ T	820	M,N	1.0	6500.0	0.20		0.21
ASPI0703WE102 □ T	1000	M,N	1.0	9440.0	0.18		0.20

ASPI0704WE Series Specification							
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ)	Max. Saturation Current (A)	Max. Temp. Rise current (A)	Max.
ASPI0704WE1R0 □ T	1.0	Y	1.0	10	10.20		6.84
ASPI0704WE2R2 □ T	2.2	Y	1.0	20	6.50		6.00
ASPI0704WE3R3 □ T	3.3	Y	1.0	30	4.60		5.00
ASPI0704WE4R7 □ T	4.7	Y	1.0	40	4.00		4.00
ASPI0704WE100 □ T	10	M,N	1.0	49	2.60		2.00
ASPI0704WE120 □ T	12	M,N	1.0	58	2.40		1.82
ASPI0704WE150 □ T	15	M,N	1.0	81	2.20		1.60
ASPI0704WE180 □ T	18	M,N	1.0	91	2.05		1.50
ASPI0704WE220 □ T	22	M,N	1.0	110	1.70		1.41
ASPI0704WE270 □ T	27	M,N	1.0	150	1.55		1.24
ASPI0704WE330 □ T	33	M,N	1.0	170	1.40		1.13
ASPI0704WE390 □ T	39	M,N	1.0	230	1.23		1.11
ASPI0704WE470 □ T	47	M,N	1.0	260	1.10		1.03
ASPI0704WE560 □ T	56	M,N	1.0	350	1.05		0.93
ASPI0704WE680 □ T	68	M,N	1.0	380	0.95		0.87
ASPI0704WE820 □ T	82	M,N	1.0	430	0.90		0.84
ASPI0704WE101 □ T	100	M,N	1.0	610	0.75		0.79
ASPI0704WE121 □ T	120	M,N	1.0	660	0.70		0.67
ASPI0704WE151 □ T	150	M,N	1.0	880	0.63		0.52
ASPI0704WE181 □ T	180	M,N	1.0	980	0.56		0.51
ASPI0704WE221 □ T	220	M,N	1.0	1170	0.54		0.44
ASPI0704WE271 □ T	270	M,N	1.0	1640	0.48		0.43
ASPI0704WE331 □ T	330	M,N	1.0	1860	0.45		0.39
ASPI0704WE391 □ T	390	M,N	1.0	2850	0.42		0.38
ASPI0704WE471 □ T	470	M,N	1.0	3010	0.34		0.29
ASPI0704WE561 □ T	560	M,N	1.0	3620	0.31		0.28
ASPI0704WE681 □ T	680	M,N	1.0	4630	0.28		0.23
ASPI0704WE821 □ T	820	M,N	1.0	5200	0.26		0.21
ASPI0704WE102 □ T	1000	M,N	1.0	6000	0.25		0.20

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- Tolerance M: ±20% • N: ±25% • Y: ±30%

- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).



SMD Power Inductors ASPI_WE Series

Specification

ASPI1204WE Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ)	Max. Saturation Current (A) Max.	Temp. Rise current (A) Max.
ASPI1204WER60 □ T	0.6	Y	100	5.5	19.00	9.50
ASPI1204WE1R0 □ T	1.0	Y	100	7.0	13.90	8.50
ASPI1204WE1R8 □ T	1.8	Y	100	9.5	10.20	7.60
ASPI1204WE2R5 □ T	2.5	Y	100	11.0	8.50	6.80
ASPI1204WE3R3 □ T	3.3	Y	100	13.0	7.10	5.90
ASPI1204WE4R7 □ T	4.7	Y	100	16.0	6.30	5.20
ASPI1204WE6R8 □ T	6.8	M,N	100	25.0	4.70	4.30
ASPI1204WE100 □ T	10	M,N	1.0	30.0	4.20	3.80
ASPI1204WE120 □ T	12	M,N	1.0	38.0	3.60	3.50
ASPI1204WE180 □ T	18	M,N	1.0	43.0	3.20	3.20
ASPI1204WE220 □ T	22	M,N	1.0	54.0	3.10	2.90
ASPI1204WE330 □ T	33	M,N	1.0	85.0	2.50	2.30
ASPI1204WE470 □ T	47	M,N	1.0	125.0	2.10	2.00
ASPI1204WE101 □ T	100	M,N	1.0	270.0	1.40	1.30
ASPI1204WE221 □ T	220	M,N	1.0	480.0	1.00	0.95

ASPI1205WE Series Specification

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ)	Max. Saturation Current (A) Max.	Temp. Rise current (A) Max.
ASPI1205WE1R5 □ T	1.5	Y	1.0	6	12.50	10.50
ASPI1205WE2R2 □ T	2.2	Y	1.0	8	11.00	10.00
ASPI1205WE3R5 □ T	3.5	Y	1.0	8	9.00	9.25
ASPI1205WE4R7 □ T	4.7	Y	1.0	11	8.00	8.25
ASPI1205WE6R8 □ T	6.8	M,N	1.0	22	6.00	5.60
ASPI1205WE8R2 □ T	8.2	M,N	1.0	20	6.25	6.25
ASPI1205WE100 □ T	10	M,N	1.0	25	5.50	5.00
ASPI1205WE120 □ T	12	M,N	1.0	27	4.85	3.91
ASPI1205WE150 □ T	15	M,N	1.0	30	4.55	3.75
ASPI1205WE180 □ T	18	M,N	1.0	34	4.30	3.48
ASPI1205WE220 □ T	22	M,N	1.0	36	3.77	3.37
ASPI1205WE270 □ T	27	M,N	1.0	51	3.55	2.97
ASPI1205WE330 □ T	33	M,N	1.0	57	3.00	2.68
ASPI1205WE390 □ T	39	M,N	1.0	68	2.74	2.49
ASPI1205WE470 □ T	47	M,N	1.0	75	2.60	2.21
ASPI1205WE560 □ T	56	M,N	1.0	110	2.35	2.01
ASPI1205WE680 □ T	68	M,N	1.0	120	2.19	1.91
ASPI1205WE820 □ T	82	M,N	1.0	140	1.88	1.65
ASPI1205WE101 □ T	100	M,N	1.0	160	1.70	1.53
ASPI1205WE121 □ T	120	M,N	1.0	170	1.56	1.30
ASPI1205WE151 □ T	150	M,N	1.0	230	1.43	1.21
ASPI1205WE181 □ T	180	M,N	1.0	290	1.24	1.06
ASPI1205WE221 □ T	220	M,N	1.0	400	1.20	0.96
ASPI1205WE271 □ T	270	M,N	1.0	460	1.00	0.89
ASPI1205WE331 □ T	330	M,N	1.0	510	0.97	0.78
ASPI1205WE391 □ T	390	M,N	1.0	690	0.85	0.68
ASPI1205WE471 □ T	470	M,N	1.0	770	0.80	0.64
ASPI1205WE561 □ T	560	M,N	1.0	860	0.70	0.62
ASPI1205WE681 □ T	680	M,N	1.0	1200	0.68	0.55
ASPI1205WE821 □ T	820	M,N	1.0	1340	0.60	0.51
ASPI1205WE102 □ T	1000	M,N	1.0	1530	0.50	0.43

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- □ Tolerance M: ±20% • N: ±25% • Y: ±30%

- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).

SMD Power Inductors ASPI_WE Series



Specification

ASPI1207WE Series Specification							
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ)	Max. Saturation Current (A)	Max. Temp. Rise current (A)	Max.
ASPI1207WER47 □ T	0.47	Y	100	3	26.40		23.50
ASPI1207WER75 □ T	0.75	Y	100	4	21.00		19.80
ASPI1207WE1R2 □ T	1.2	Y	100	7	16.60		12.00
ASPI1207WE1R5 □ T	1.5	Y	100	6	12.00		10.00
ASPI1207WE2R4 □ T	2.4	Y	100	12	14.30		10.10
ASPI1207WE3R5 □ T	3.5	Y	100	14	9.60		8.90
ASPI1207WE4R7 □ T	4.7	Y	100	16	9.30		8.50
ASPI1207WE5R6 □ T	5.6	M,N	100	10	8.20		8.00
ASPI1207WE6R1 □ T	6.1	M,N	100	18	8.60		7.60
ASPI1207WE7R6 □ T	7.6	M,N	100	20	8.00		7.40
ASPI1207WE100 □ T	10	M,N	1.0	22	6.60		6.20
ASPI1207WE120 □ T	12	M,N	1.0	24	6.30		5.90
ASPI1207WE150 □ T	15	M,N	1.0	27	6.00		5.00
ASPI1207WE180 □ T	18	M,N	1.0	39	5.40		4.20
ASPI1207WE220 □ T	22	M,N	1.0	43	5.00		4.10
ASPI1207WE270 □ T	27	M,N	1.0	46	3.80		3.70
ASPI1207WE330 □ T	33	M,N	1.0	64	3.60		3.20
ASPI1207WE390 □ T	39	M,N	1.0	73	3.50		3.00
ASPI1207WE470 □ T	47	M,N	1.0	100	3.00		2.70
ASPI1207WE560 □ T	56	M,N	1.0	110	2.90		2.40
ASPI1207WE680 □ T	68	M,N	1.0	140	2.50		2.30
ASPI1207WE820 □ T	82	M,N	1.0	160	2.45		2.25
ASPI1207WE101 □ T	100	M,N	1.0	220	2.40		2.20
ASPI1207WE151 □ T	150	M,N	1.0	280	1.80		1.80
ASPI1207WE181 □ T	180	M,N	1.0	350	1.60		1.40
ASPI1207WE221 □ T	220	M,N	1.0	390	1.49		1.30
ASPI1207WE331 □ T	330	M,N	1.0	640	1.10		1.10
ASPI1207WE471 □ T	470	M,N	1.0	980	0.90		0.90
ASPI1207WE561 □ T	560	M,N	1.0	1070	0.90		0.80
ASPI1207WE681 □ T	680	M,N	1.0	1460	0.80		0.70
ASPI1207WE821 □ T	820	M,N	1.0	1640	0.80		0.60
ASPI1207WE102 □ T	1000	M,N	1.0	1820	0.70		0.60

ASPI1209WE Series Specification							
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ)	Max. Saturation Current (A)	Max. Temp. Rise current (A)	Max.
ASPI1209WE1R0 □ T	1.0	Y	1.0	6.0	25.00		13.00
ASPI1209WE2R2 □ T	2.2	Y	1.0	6.0	20.00		11.50
ASPI1209WE3R5 □ T	3.5	Y	1.0	9.0	16.50		11.00
ASPI1209WE4R7 □ T	4.7	Y	1.0	11.0	13.00		9.30
ASPI1209WE6R8 □ T	6.8	M,N	1.0	14.0	12.80		8.40
ASPI1209WE100 □ T	10	M,N	1.0	21.0	10.50		7.10
ASPI1209WE150 □ T	15	M,N	1.0	26.0	8.00		6.50
ASPI1209WE220 □ T	22	M,N	1.0	28.0	6.50		5.30
ASPI1209WE270 □ T	27	M,N	1.0	40.0	5.80		4.60
ASPI1209WE330 □ T	33	M,N	1.0	45.0	5.50		4.20
ASPI1209WE390 □ T	39	M,N	1.0	56.0	5.00		4.10
ASPI1209WE470 □ T	47	M,N	1.0	60.0	4.50		3.80
ASPI1209WE680 □ T	68	M,N	1.0	89.0	3.60		3.20
ASPI1209WE820 □ T	82	M,N	1.0	90.5	3.40		2.75
ASPI1209WE101 □ T	100	M,N	1.0	110.0	3.10		2.50
ASPI1209WE151 □ T	150	M,N	1.0	200.0	2.70		2.10
ASPI1209WE221 □ T	220	M,N	1.0	300.0	2.20		1.80
ASPI1209WE271 □ T	270	M,N	1.0	330.0	2.10		1.60
ASPI1209WE331 □ T	330	M,N	1.0	430.0	1.70		1.50
ASPI1209WE471 □ T	470	M,N	1.0	560.0	1.50		1.40
ASPI1209WE681 □ T	680	M,N	1.0	825.0	1.30		1.10
ASPI1209WE821 □ T	820	M,N	1.0	1000.0	1.10		0.95
ASPI1209WE102 □ T	1000	M,N	1.0	1200.0	1.00		0.90
ASPI1209WE152 □ T	1500	M,N	1.0	2300.0	0.80		0.70

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- Tolerance M: ±20% • N: ±25% • Y: ±30%

- Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).



SMD Power Inductors APIW Series



Shape & Dimensions

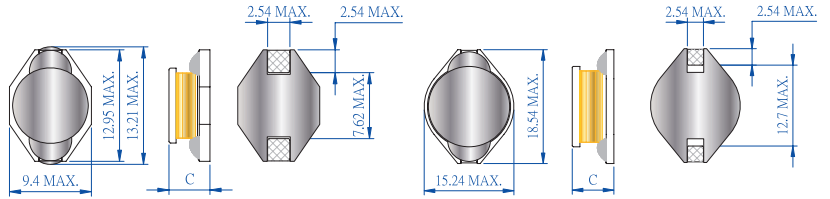
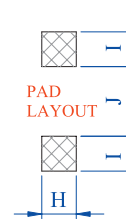


Fig.1

Fig.2



Features

- Low profile very effective in space-conscious applications.
- Low resistance and high energy storage.

Applications

- Excellent as DC-DC Converter used in notebooks computers, PDA and mobile headphones. Step-up or step-down converters.

TYPE	Figure	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
APIW3308	1	3.00 MAX.	2.79	2.92	7.37
APIW3316	1	5.21 MAX.	2.79	2.92	7.37
APIW3340	1	11.43 MAX.	2.79	2.92	7.37
APIW5022	2	7.11 MAX.	2.79	2.92	12.45

Product Identification

①	②	③	④	⑤	⑥	⑦
APIW	3316△△	△△△	100	M	T	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
APIW	3308/3316/3340 5022	△△△ Type Code	2R2 2.2 100 10 220 22	M ±20% N ±25% Y ±30%	T Taping reel B Bulk	"A~Z"

Specification

APIW3308 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
APIW3308100 □ T	10	M,N	100	85	2.4
APIW3308150 □ T	15	M,N	100	120	2.0
APIW3308220 □ T	22	M,N	100	180	1.6
APIW3308330 □ T	33	M,N	100	250	1.4
APIW3308470 □ T	47	M,N	100	320	1.0
APIW3308680 □ T	68	M,N	100	540	0.9
APIW3308101 □ T	100	M,N	100	690	0.7
APIW3308151 □ T	150	M,N	100	940	0.6
APIW3308221 □ T	220	M,N	100	1600	0.5
APIW3308331 □ T	330	M,N	100	2150	0.4
APIW3308471 □ T	470	M,N	100	3300	0.3
APIW3308681 □ T	680	M,N	100	4400	0.2
APIW3308102 □ T	1000	M,N	100	7000	0.1

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 15% from its value without current.
- □ Tolerance M: ±20% • N: ±25%

SMD Power Inductors APIW Series



Specification

APIW3316 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
APIW33161R0 □ T	1.0	Y	100	9	9.0
APIW33161R5 □ T	1.5	Y	100	10	8.0
APIW33162R2 □ T	2.2	Y	100	12	7.0
APIW33163R3 □ T	3.3	Y	100	15	6.4
APIW33164R7 □ T	4.7	Y	100	18	5.4
APIW33166R8 □ T	6.8	M,N	100	27	4.6
APIW3316100 □ T	10	M,N	100	38	3.8
APIW3316150 □ T	15	M,N	100	46	3.0
APIW3316220 □ T	22	M,N	100	85	2.6
APIW3316330 □ T	33	M,N	100	100	2.0
APIW3316470 □ T	47	M,N	100	140	1.6
APIW3316680 □ T	68	M,N	100	200	1.4
APIW3316101 □ T	100	M,N	100	280	1.2
APIW3316151 □ T	150	M,N	100	400	1.0
APIW3316221 □ T	220	M,N	100	610	0.8
APIW3316331 □ T	330	M,N	100	1020	0.6
APIW3316471 □ T	470	M,N	100	1270	0.5
APIW3316681 □ T	680	M,N	100	2020	0.4
APIW3316102 □ T	1000	M,N	100	3000	0.3

APIW3340 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
APIW3340100 □ T	10	M,N	100	40	8.0
APIW3340150 □ T	15	M,N	100	50	7.0
APIW3340220 □ T	22	M,N	100	66	5.5
APIW3340330 □ T	33	M,N	100	80	4.0
APIW3340470 □ T	47	M,N	100	110	3.8
APIW3340680 □ T	68	M,N	100	170	3.0
APIW3340101 □ T	100	M,N	100	220	2.5
APIW3340151 □ T	150	M,N	100	340	2.0
APIW3340221 □ T	220	M,N	100	440	1.6
APIW3340331 □ T	330	M,N	100	700	1.2
APIW3340471 □ T	470	M,N	100	950	1.0
APIW3340681 □ T	680	M,N	100	1400	1.0
APIW3340102 □ T	1000	M,N	100	2000	0.8

APIW5022 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
APIW50221R0 □ T	1.0	Y	100	9	20.0
APIW50222R2 □ T	2.2	Y	100	14	16.0
APIW50223R3 □ T	3.3	Y	100	15	14.0
APIW50225R6 □ T	5.6	M,N	100	20	12.0
APIW5022100 □ T	10	M,N	100	31	10.0
APIW5022150 □ T	15	M,N	100	36	8.0
APIW5022220 □ T	22	M,N	100	47	7.0
APIW5022330 □ T	33	M,N	100	66	5.5
APIW5022470 □ T	47	M,N	100	86	4.5
APIW5022680 □ T	68	M,N	100	130	3.5
APIW5022101 □ T	100	M,N	100	190	3.0
APIW5022151 □ T	150	M,N	100	250	2.6
APIW5022221 □ T	220	M,N	100	380	2.4
APIW5022331 □ T	330	M,N	100	560	1.9
APIW5022471 □ T	470	M,N	100	850	1.4
APIW5022681 □ T	680	M,N	100	1400	1.2
APIW5022102 □ T	1000	M,N	100	1800	1.0

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 15% from its value without current.
- □ Tolerance M : ±20% • N : ±25% • Y : ±30%



SMD Power Inductors APIR Series



Shape & Dimensions

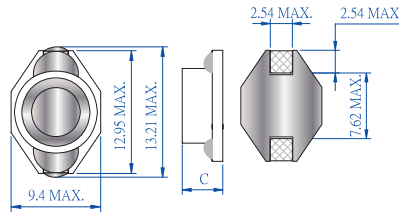


Fig.1

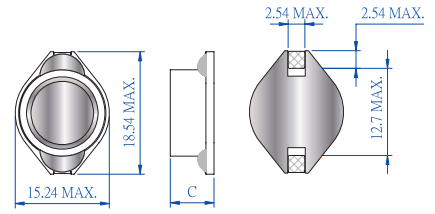
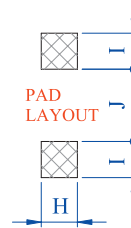


Fig.2



Features

- Low profile very effective in space-conscious applications.
- Low resistance and high energy storage.

Applications

- Excellent as DC-DC Converter used in notebooks computers, PDA and mobile headphones. Step-up or step-down converters.

TYPE	Figure	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
APIR3316	1	5.08 MAX.	2.79	2.92	7.37
APIR5022	2	7.62 MAX.	2.79	2.92	12.45

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
APIR	3316 5022	△△△ Type Code	2R2 2.2 100 10 220 22	K ±10% M ±20% Y ±30%	T Taping reel B Bulk	"A~Z"

Specification

APIR3316 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
APIR33161R0 □ T	1.0	Y	100	21	5.6
APIR33161R5 □ T	1.5	Y	100	22	5.2
APIR33162R2 □ T	2.2	Y	100	32	5.0
APIR33163R3 □ T	3.3	Y	100	39	3.9
APIR33164R7 □ T	4.7	Y	100	54	3.2
APIR33166R8 □ T	6.8	M,N	100	75	2.8
APIR3316100 □ T	10	M,N	100	101	2.4
APIR3316150 □ T	15	M,N	100	150	2.0
APIR3316220 □ T	22	M,N	100	207	1.6
APIR3316330 □ T	33	M,N	100	334	1.4
APIR3316470 □ T	47	M,N	100	472	1.0

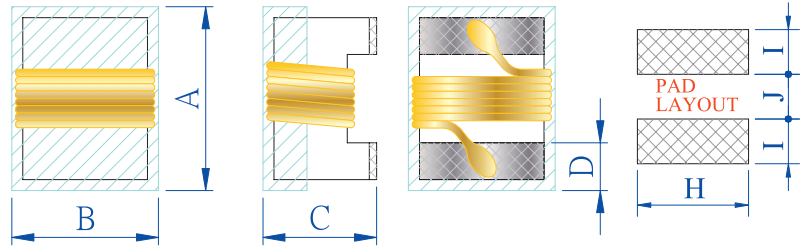
APIR5022 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
APIR5022100 □ T	10	M,N	100	40	8.00
APIR5022150 □ T	15	M,N	100	48	7.00
APIR5022220 □ T	22	M,N	100	59	6.00
APIR5022330 □ T	33	M,N	100	75	5.00
APIR5022470 □ T	47	M,N	100	97	4.00
APIR5022680 □ T	68	M,N	100	138	3.00
APIR5022101 □ T	100	M,N	100	207	2.40
APIR5022151 □ T	150	M,N	100	293	2.10
APIR5022221 □ T	220	M,N	100	470	1.90
APIR5022331 □ T	330	M,N	100	780	1.10
APIR5022471 □ T	470	M,N	100	1080	1.10
APIR5022681 □ T	680	M,N	100	1400	0.96
APIR5022102 □ T	1000	M,N	100	2010	0.80

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 15% from its value without current.
- □ Tolerance M: ±20% • N: ±25% • Y: ±30%



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AOI1005C	1.19 MAX.	0.7 MAX.	0.66 MAX.	0.23 Ref.	0.66	0.36	0.46
AOI1005CNM	1.05±0.05	0.6±0.05	0.5±0.05	0.2 Ref.	0.56	0.36	0.46
AOI1608CN	1.8 MAX.	1.2 MAX.	1.02 MAX.	0.33 Ref.	1.02	0.64	0.64
AOI1608CNM	1.6+0.2/-0.1	1.02±0.1	0.82+0.2/-0.1	0.3 Ref.	1.02	0.64	0.64
AOI2012CN	2.4 MAX.	1.65 MAX.	1.45 MAX.	0.44 Ref.	1.78	1.02	0.76
AOI2520CN	2.9 MAX.	2.54 MAX.	2.03 MAX.	0.45 ± 0.1	2.54	1.02	1.27
AOI2012FN	2.4 MAX.	1.65 MAX.	1.45 MAX.	0.44 Ref.	1.78	1.02	0.76
AOI2520FN	2.9 MAX.	2.54 MAX.	2.03 MAX.	0.5 ± 0.1	2.54	1.02	1.27
AOI3225FN	3.6 MAX.	2.9 MAX.	2.4 MAX.	0.5 ± 0.1	2.70	1.20	2.00

Features

- Miniature RF inductors have been designed especially for the need of today's high frequency designer. Their ceramic construction delivers the highest possible SRFs as well as excellent Q values. The non-magnetic coil form also assure the utmost in thermal stability, predictability, and batch consistency.

Applications

- Pager, Cordless phone & High Freq. communication Products.

Product Identification

①	②	③	④	⑤	⑥	⑦
AOI	1608△△	△△△	4N7	J	T	△
Product	Dimension	Type	Inductance (nH)	Tolerance	Package	Special product
AOI	1005	C△△	4N7	B ±0.1nH	T Taping reel	"A~Z"
	1608	CNM	4.7	C ±0.2nH	B Bulk	
	2012	CN△	10N	D ±0.5nH		
	2520	FN△		G ±2%		
	3225			H ±3%		
				J ±5%		
				K ±10%		



RF Inductors AOI Series

Specification

AOI1005C Series Specification							
Part Number	Inductance (nH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Min.) (MHz)	DCR (Ω) Max.	I _{rms} (mA) Max.	
AOI1005C1N0 □ T	1.0/250	J • K	16/250	12700	0.045	1360	
AOI1005C1N9 □ T	1.9/250	J • K	16/250	11300	0.070	1040	
AOI1005C2N0 □ T	2.0/250	J • K	16/250	11100	0.070	1040	
AOI1005C2N2 □ T	2.2/250	J • K	19/250	10800	0.070	960	
AOI1005C2N4 □ T	2.4/250	J • K	15/250	10500	0.068	790	
AOI1005C2N7 □ T	2.7/250	J • K	16/250	10400	0.120	640	
AOI1005C3N3 □ T	3.3/250	J • K	19/250	7000	0.066	840	
AOI1005C3N6 □ T	3.6/250	J • K	19/250	6800	0.066	840	
AOI1005C3N9 □ T	3.9/250	J • K	19/250	6000	0.066	840	
AOI1005C4N3 □ T	4.3/250	J • K	18/250	6000	0.091	700	
AOI1005C4N7 □ T	4.7/250	J • K	15/250	4770	0.130	640	
AOI1005C5N1 □ T	5.1/250	J • K	20/250	4800	0.083	800	
AOI1005C5N6 □ T	5.6/250	J • K	20/250	4800	0.083	760	
AOI1005C6N2 □ T	6.2/250	J • K	20/250	4800	0.083	760	
AOI1005C6N8 □ T	6.8/250	J • K	20/250	4800	0.083	680	
AOI1005C7N5 □ T	7.5/250	J • K	22/250	4800	0.100	680	
AOI1005C8N2 □ T	8.2/250	J • K	22/250	4400	0.100	680	
AOI1005C8N7 □ T	8.7/250	J • K	18/250	4100	0.200	480	
AOI1005C9N0 □ T	9.0/250	J • K	22/250	4160	0.100	680	
AOI1005C9N1 □ T	9.1/250	J • K	22/250	4160	0.100	680	
AOI1005C9N5 □ T	9.5/250	J • K	18/250	4000	0.200	480	
AOI1005C10N □ T	10/250	J • K	21/250	3900	0.200	480	
AOI1005C11N □ T	11/250	J • K	24/250	3680	0.120	640	
AOI1005C12N □ T	12/250	J • K	24/250	3600	0.120	640	
AOI1005C13N □ T	13/250	J • K	24/250	3450	0.210	440	
AOI1005C15N □ T	15/250	J • K	24/250	3280	0.170	560	
AOI1005C16N □ T	16/250	J • K	24/250	3100	0.220	560	
AOI1005C18N □ T	18/250	J • K	25/250	3100	0.230	420	
AOI1005C19N □ T	19/250	J • K	24/250	3040	0.200	480	
AOI1005C20N □ T	20/250	J • K	25/250	3000	0.250	420	
AOI1005C22N □ T	22/250	J • K	25/250	2800	0.300	400	
AOI1005C23N □ T	23/250	J • K	22/250	2720	0.300	400	
AOI1005C24N □ T	24/250	J • K	25/250	2700	0.300	400	
AOI1005C27N □ T	27/250	J • K	24/250	2480	0.300	400	
AOI1005C30N □ T	30/250	J • K	25/250	2350	0.350	400	
AOI1005C33N □ T	33/250	J • K	24/250	2350	0.400	400	
AOI1005C36N □ T	36/250	J • K	24/250	2320	0.440	320	
AOI1005C39N □ T	39/250	J • K	25/250	2100	0.550	200	
AOI1005C40N □ T	40/250	J • K	24/250	2240	0.650	320	
AOI1005C43N □ T	43/250	J • K	25/250	2030	0.810	100	
AOI1005C47N □ T	47/250	J • K	20/250	2100	0.830	150	
AOI1005C51N □ T	51/250	J • K	25/250	1750	0.820	100	
AOI1005C56N □ T	56/250	J • K	22/250	1760	0.970	100	
AOI1005C68N □ T	68/250	J • K	22/250	1620	1.120	100	
AOI1005C82N □ T	82/250	J • K	20/250	1260	1.55	50	
AOI1005CR10 □ T	100/250	J • K	20/250	1160	2.0	30	

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- I_{rms} for 15°C rise above 25°C ambient.
- □ Tolerance J: ±5% • K: ±10%



Specification

AOI1005CNM Series Specification							
Part Number	Inductance (nH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Min.) (GHz)	DCR (Ω) Max.	Irms (mA) Max.	
AOI1005CNM1N5 □ T	1.5/100	B • C • D	10/250	18.0	0.03	1000	
AOI1005CNM2N4 □ T	2.4/100	B • C • D	20/250	15.0	0.05	850	
AOI1005CNM2N5 □ T	2.5/100	B • C • D	20/250	15.0	0.05	850	
AOI1005CNM2N7 □ T	2.7/100	B • C • D	20/250	15.0	0.05	850	
AOI1005CNM2N9 □ T	2.9/100	B • C • D	20/250	15.0	0.07	750	
AOI1005CNM3N9 □ T	3.9/100	H • J	25/250	10.0	0.07	750	
AOI1005CNM4N1 □ T	4.1/100	H • J	25/250	10.0	0.07	750	
AOI1005CNM4N3 □ T	4.3/100	H • J	25/250	10.0	0.07	750	
AOI1005CNM4N7 □ T	4.7/100	H • J	25/250	8.0	0.07	750	
AOI1005CNM5N1 □ T	5.1/100	H • J	25 Typ/250	8.0	0.12	600	
AOI1005CNM5N8 □ T	5.8/100	H • J	25/250	8.0	0.12	700	
AOI1005CNM6N2 □ T	6.2/100	H • J	25/250	8.0	0.09	700	
AOI1005CNM6N8 □ T	6.8/100	H • J	25/250	6.0	0.09	700	
AOI1005CNM7N3 □ T	7.3/100	H • J	25/250	6.0	0.13	570	
AOI1005CNM7N5 □ T	7.5/100	H • J	25/250	6.0	0.13	570	
AOI1005CNM8N2 □ T	8.2/100	H • J	25/250	5.5	0.14	540	
AOI1005CNM8N7 □ T	8.7/100	H • J	25/250	5.5	0.14	540	
AOI1005CNM9N1 □ T	9.1/100	H • J	25/250	5.5	0.14	540	
AOI1005CNM9N5 □ T	9.5/100	H • J	25/250	5.5	0.14	540	
AOI1005CNM10N □ T	10/100	G • H • J	25/250	5.5	0.17	500	
AOI1005CNM11N □ T	11/100	G • H • J	30/250	5.5	0.14	500	
AOI1005CNM12N □ T	12/100	G • H • J	30/250	5.5	0.14	500	
AOI1005CNM13N □ T	13/100	G • H • J	25/250	5.0	0.21	430	
AOI1005CNM15N □ T	15/100	G • H • J	30/250	5.0	0.16	460	
AOI1005CNM16N □ T	16/100	G • H • J	25/250	4.5	0.24	370	
AOI1005CNM18N □ T	18/100	G • H • J	25/250	4.5	0.27	370	
AOI1005CNM19N □ T	19/100	G • H • J	25/250	4.5	0.27	370	
AOI1005CNM20N □ T	20/100	G • H • J	25/250	4.0	0.27	370	
AOI1005CNM22N □ T	22/100	G • H • J	25/250	4.0	0.30	310	
AOI1005CNM23N □ T	23/100	G • H • J	25/250	3.8	0.30	310	
AOI1005CNM24N □ T	24/100	G • H • J	25/250	3.5	0.52	280	
AOI1005CNM27N □ T	27/100	G • H • J	25/250	3.5	0.52	280	
AOI1005CNM30N □ T	30/100	G • H • J	25/250	3.3	0.58	270	
AOI1005CNM33N □ T	33/100	G • H • J	25/250	3.2	0.63	260	
AOI1005CNM36N □ T	36/100	G • H • J	25/250	3.1	0.63	260	
AOI1005CNM39N □ T	39/100	G • H • J	25/250	3.0	0.70	250	
AOI1005CNM40N □ T	40/100	G • H • J	25/250	3.0	0.70	250	
AOI1005CNM47N □ T	47/100	G • H • J	25/200	2.9	1.08	210	
AOI1005CNM51N □ T	51/100	G • H • J	25/200	2.85	1.08	210	
AOI1005CNM56N □ T	56/100	G • H • J	25/200	2.8	1.17	200	
AOI1005CNM62N □ T	62/100	G • H • J	20/200	2.6	1.82	145	
AOI1005CNM68N □ T	68/100	G • H • J	20/200	2.5	1.96	140	
AOI1005CNM72N □ T	72/100	G • H • J	20/150	2.5	2.10	135	
AOI1005CNM75N □ T	75/100	G • H • J	20/150	2.4	2.10	135	
AOI1005CNM82N □ T	82/100	G • H • J	20/150	2.3	2.24	130	
AOI1005CNM91N □ T	91/100	G • H • J	20/150	2.1	2.38	125	
AOI1005CNMR10 □ T	100/100	G • H • J	20/150	1.5	2.52	120	
AOI1005CNMR12 □ T	120/100	G • H • J	20/150	1.0	2.66	110	

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Irms for 15°C rise above 25°C ambient.

- □ Tolerance B : ±0.1nH • C : ±0.2nH • D : ±0.5nH • G : ±2% • H : ±3% • J : ±5%



RF Inductors AOI Series

Specification

AOI1608CN Series Specification												
Part Number	Inductance		Inductance Tolerance	Q		900 MHz		1.7 GHz		SRF (Min.) (MHz)	DCR (Ω) Max.	Irms (mA) Max.
	(nH) / MHz			(Min.) / MHz	L Typ.	Q Typ.	L Typ.	Q Typ.				
AOI1608CN1N6 □ T	1.6/250		J • K	24/250	1.61	72.86	1.61	89.61	12500	0.030	700	
AOI1608CN1N8 □ T	1.8/250		J • K	16/250	1.77	46.55	1.77	59.72	12500	0.045	700	
AOI1608CN2N2 □ T	2.2/250		J • K	13/250	2.14	26.03	2.13	34.11	12500	0.250	700	
AOI1608CN3N3 □ T	3.3/250		J • K	30/250	3.42	73.45	3.46	95.36	5900	0.045	700	
AOI1608CN3N6 □ T	3.6/250		J • K	22/250	3.68	64.20	3.73	82.77	5900	0.063	700	
AOI1608CN3N9 □ T	3.9/250		J • K	22/250	3.90	50.11	3.94	67.32	6900	0.080	700	
AOI1608CN4N3 □ T	4.3/250		J • K	22/250	4.44	67.50	4.59	81.57	5900	0.063	700	
AOI1608CN4N7 □ T	4.7/250		J • K	20/250	4.65	58.79	4.75	75.36	5800	0.085	700	
AOI1608CN5N1 □ T	5.1/250		J • K	20/250	5.07	54.50	5.21	70.06	5700	0.115	700	
AOI1608CN5N6 □ T	5.6/250		J • K	18/250	5.48	43.67	5.66	55.16	5800	0.160	700	
AOI1608CN6N3 □ T	6.3/250		J • K	26/250	6.54	68.68	6.71	88.51	5700	0.115	700	
AOI1608CN6N8 □ T	6.8/250		J • K	27/250	6.89	62.87	7.08	82.33	5800	0.125	700	
AOI1608CN7N5 □ T	7.5/250		J • K	28/250	7.57	65.18	7.84	85.57	4800	0.115	700	
AOI1608CN8N2 □ T	8.2/250		J • K	30/250	8.13	65.01	8.47	82.23	4700	0.125	700	
AOI1608CN8N7 □ T	8.7/250		J • K	28/250	8.76	63.94	9.22	76.37	4600	0.109	700	
AOI1608CN9N1 □ T	9.1/250		J • K	28/250	9.208	62.29	9.77	75.88	4600	0.120	700	
AOI1608CN9N5 □ T	9.5/250		J • K	28/250	9.79	62.25	10.58	69.16	5400	0.145	700	
AOI1608CN10N □ T	10/250		G • J • K	31/250	10.36	69.22	10.81	90.90	4800	0.145	700	
AOI1608CN11N □ T	11/250		G • J • K	30/250	11.22	67.67	11.80	85.69	4000	0.145	700	
AOI1608CN12N □ T	12/250		G • J • K	35/250	12.37	69.26	13.22	83.39	4000	0.145	700	
AOI1608CN15N □ T	15/250		G • J • K	35/250	15.22	76.65	16.37	88.93	4000	0.180	700	
AOI1608CN16N □ T	16/250		G • J • K	34/250	16.60	79.11	18.38	79.94	3300	0.170	700	
AOI1608CN18N □ T	18/250		G • J • K	35/250	18.44	76.19	20.05	80.07	3100	0.180	700	
AOI1608CN19N □ T	19/250		G • J • K	35/250	19.71	73.77	23.35	62.78	3000	0.190	700	
AOI1608CN20N □ T	20/250		G • J • K	38/250	20.50	79.78	23.27	86.77	3000	0.180	700	
AOI1608CN22N □ T	22/250		G • J • K	38/250	22.66	78.78	25.67	83.99	3000	0.205	700	
AOI1608CN23N □ T	23/250		G • J • K	38/250	24.19	70.88	28.48	72.86	2850	0.205	700	
AOI1608CN24N □ T	24/250		G • J • K	36/250	25.74	70.93	31.01	63.21	2650	0.205	700	
AOI1608CN25N □ T	25/250		G • J • K	38/250	25.93	84.76	29.73	89.52	2800	0.210	600	
AOI1608CN27N □ T	27/250		G • J • K	40/250	29.03	59.83	37.43	46.06	2800	0.220	600	
AOI1608CN30N □ T	30/250		G • J • K	37/250	32.91	68.96	41.66	59.67	2250	0.220	600	
AOI1608CN33N □ T	33/250		G • J • K	40/250	35.72	61.57	47.39	50.44	2300	0.240	600	
AOI1608CN36N □ T	36/250		G • J • K	37/250	39.45	64.02	50.92	59.84	2080	0.250	600	
AOI1608CN39N □ T	39/250		G • J • K	40/250	42.71	61.22	58.42	47.55	2200	0.260	600	
AOI1608CN43N □ T	43/250		G • J • K	38/250	47.21	62.53	64.17	53.05	2000	0.280	600	
AOI1608CN47N □ T	47/200		G • J • K	38/200	51.82	52.98	77.03	39.17	2000	0.280	600	
AOI1608CN51N □ T	51/200		G • J • K	38/250	59.27	50.95	103.80	23.61	2130	0.300	600	
AOI1608CN56N □ T	56/200		G • J • K	38/200	64.38	51.47	108.1	28.82	1900	0.310	600	
AOI1608CN62N □ T	62/200		G • J • K	37/200	73.30	42.68	156.50	16.15	1800	0.330	600	
AOI1608CN68N □ T	68/200		G • J • K	37/200	80.23	44.33	174.00	18.31	1700	0.340	600	
AOI1608CN72N □ T	72/150		G • J • K	34/150	86.67	41.11	212.9	15.59	1700	0.490	400	
AOI1608CN82N □ T	82/150		G • J • K	34/150	101.20	37.88	300.60	11.78	1700	0.540	400	
AOI1608CN91N □ T	91/150		G • J • K	34/150	111.80	49.36	-	-	1500	0.560	400	
AOI1608CNR10 □ T	100/150		G • J • K	34/150	126.90	36.13	-	-	1400	0.580	400	
AOI1608CNR11 □ T	110/150		G • J • K	32/150	146.80	34.58	-	-	1350	0.610	300	
AOI1608CNR12 □ T	120/150		G • J • K	32/150	166.80	28.57	-	-	1300	0.750	300	
AOI1608CNR13 □ T	130/150		G • J • K	32/150	180.10	36.93	-	-	1200	0.750	280	
AOI1608CNR15 □ T	150/150		G • J • K	28/150	234.90	21.92	-	-	990	0.920	280	
AOI1608CNR17 □ T	170/100		G • J • K	25/100	228.40	34.96	-	-	990	1.150	240	
AOI1608CNR18 □ T	180/100		G • J • K	25/100	289.10	19.93	-	-	990	1.250	240	
AOI1608CNR19 □ T	190/100		G • J • K	25/100	279.10	30.83	-	-	990	1.350	200	
AOI1608CNR20 □ T	200/100		G • J • K	25/100	-	-	-	-	990	1.500	200	
AOI1608CNR22 □ T	220/100		G • J • K	25/100	-	-	-	-	900	1.700	200	
AOI1608CNR24 □ T	240/100		G • J • K	25/100	-	-	-	-	900	1.700	200	
AOI1608CNR27 □ T	270/100		G • J • K	24/100	-	-	-	-	900	2.000	170	
AOI1608CNR33 □ T	330/100		G • J • K	25/100	-	-	-	-	900	2.750	100	
AOI1608CNR34 □ T	340/100		G • J • K	25/100	-	-	-	-	900	2.900	100	
AOI1608CNR39 □ T	390/100		G • J • K	25/100	-	-	-	-	900	3.150	100	
AOI1608CNR47 □ T	470/100		G • J • K	25/100	-	-	-	-	750	4.000	80	

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Irms for 15°C rise above 25°C ambient.
- □ Tolerance G : $\pm 2\%$ • J : $\pm 5\%$ • K : $\pm 10\%$



Specification

AOI1608CNM Series Specification							
Part Number	Inductance (nH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Min.) (GHz)	DCR (Ω) Max.	I _{rms} (mA) Max.	
AOI1608CNM2N2 □ T	2.2/100	B • C • D	16/250	6.0	0.049	700	
AOI1608CNM3N6 □ T	3.6/100	H • J	25/250	6.0	0.059	850	
AOI1608CNM3N9 □ T	3.9/100	H • J	35/250	6.0	0.059	850	
AOI1608CNM4N3 □ T	4.3/100	H • J	35/250	6.0	0.059	850	
AOI1608CNM4N7 □ T	4.7/100	H • J	35/250	6.0	0.059	850	
AOI1608CNM5N6 □ T	5.6/100	H • J	35/250	6.0	0.082	750	
AOI1608CNM6N2 □ T	6.2/100	H • J	35/250	6.0	0.082	750	
AOI1608CNM6N8 □ T	6.8/100	H • J	35/250	6.0	0.082	750	
AOI1608CNM7N5 □ T	7.5/100	H • J	35/250	6.0	0.110	750	
AOI1608CNM8N2 □ T	8.2/100	H • J	35/250	6.0	0.110	650	
AOI1608CNM8N7 □ T	8.7/100	H • J	35/250	6.0	0.110	650	
AOI1608CNM9N1 □ T	9.1/100	H • J	35/250	6.0	0.110	650	
AOI1608CNM9N5 □ T	9.5/100	H • J	35/250	6.0	0.110	650	
AOI1608CNM10N □ T	10/100	G • H • J	35/250	6.0	0.110	650	
AOI1608CNM11N □ T	11/100	G • H • J	35/250	6.0	0.130	650	
AOI1608CNM12N □ T	12/100	G • H • J	35/250	6.0	0.130	600	
AOI1608CNM13N □ T	13/100	G • H • J	35/250	6.0	0.130	600	
AOI1608CNM15N □ T	15/100	G • H • J	40/250	6.0	0.130	600	
AOI1608CNM16N □ T	16/100	G • H • J	40/250	5.5	0.160	550	
AOI1608CNM18N □ T	18/100	G • H • J	40/250	5.5	0.160	550	
AOI1608CNM20N □ T	20/100	G • H • J	40/250	4.9	0.160	550	
AOI1608CNM22N □ T	22/100	G • H • J	40/250	4.6	0.170	500	
AOI1608CNM24N □ T	24/100	G • H • J	40/250	3.8	0.210	500	
AOI1608CNM27N □ T	27/100	G • H • J	40/250	3.7	0.210	440	
AOI1608CNM30N □ T	30/100	G • H • J	40/250	3.3	0.230	420	
AOI1608CNM33N □ T	33/100	G • H • J	40/250	3.2	0.230	420	
AOI1608CNM36N □ T	36/100	G • H • J	40/250	2.9	0.260	400	
AOI1608CNM39N □ T	39/100	G • H • J	40/250	2.8	0.260	400	
AOI1608CNM43N □ T	43/100	G • H • J	40/200	2.7	0.290	380	
AOI1608CNM47N □ T	47/100	G • H • J	38/200	2.6	0.290	380	
AOI1608CNM51N □ T	51/100	G • H • J	38/200	2.5	0.330	370	
AOI1608CNM56N □ T	56/100	G • H • J	38/200	2.4	0.350	360	
AOI1608CNM62N □ T	62/100	G • H • J	38/200	2.3	0.510	280	
AOI1608CNM68N □ T	68/100	G • H • J	38/200	2.2	0.380	340	
AOI1608CNM72N □ T	72/100	G • H • J	34/150	2.1	0.560	270	
AOI1608CNM75N □ T	75/100	G • H • J	34/150	2.05	0.560	270	
AOI1608CNM82N □ T	82/100	G • H • J	34/150	2.00	0.600	250	
AOI1608CNM91N □ T	91/100	G • H • J	34/150	1.90	0.640	230	
AOI1608CNMR10 □ T	100/100	G • H • J	34/150	1.80	0.680	220	
AOI1608CNMR11 □ T	110/100	G • H • J	32/150	1.70	1.200	200	
AOI1608CNMR12 □ T	120/100	G • H • J	32/150	1.60	1.300	180	
AOI1608CNMR13 □ T	130/100	G • H • J	32/150	1.45	1.400	170	
AOI1608CNMR15 □ T	150/100	G • H • J	32/150	1.40	1.500	160	
AOI1608CNMR16 □ T	160/100	G • H • J	32/150	1.35	2.100	150	
AOI1608CNMR18 □ T	180/100	G • H • J	25/100	1.30	2.200	140	
AOI1608CNMR20 □ T	200/100	G • H • J	25/100	1.25	2.400	120	
AOI1608CNMR22 □ T	220/100	G • H • J	25/100	1.20	2.500	120	
AOI1608CNMR27 □ T	270/100	G • H • J	30/100	0.96	3.400	110	
AOI1608CNMR33 □ T	330/100	G • H • J	30/100	0.80	5.500	85	
AOI1608CNMR39 □ T	390/100	G • H • J	30/100	0.80	6.200	80	
AOI1608CNMR47 □ T	470/100	G • H • J	30/100	0.70	7.000	75	

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- I_{rms} for 15°C rise above 25°C ambient.
- □ Tolerance B : ±0.1nH • C : ±0.2nH • D : ±0.5nH • G : ±2% • H : ±3% • J : ±5%



RF Inductors AOI Series

Specification

AOI2012CN Series Specification							
Part Number	Inductance (nH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Min.) (MHz)	DCR (Ω) Max.	Irms (mA) Max.	
AOI2012CN2N8 □ T	2.8/250	J • K	55/1500	7900	0.06	800	
AOI2012CN3N0 □ T	3.0/250	J • K	55/1500	7900	0.08	800	
AOI2012CN3N3 □ T	3.3/250	J • K	45/1500	7900	0.12	600	
AOI2012CN5N1 □ T	5.1/250	J • K	60/1000	5800	0.06	600	
AOI2012CN5N6 □ T	5.6/250	J • K	65/1000	5500	0.08	600	
AOI2012CN6N2 □ T	6.2/250	J • K	50/1000	5500	0.11	800	
AOI2012CN6N8 □ T	6.8/250	J • K	50/1000	5500	0.11	600	
AOI2012CN7N5 □ T	7.5/250	J • K	50/1000	4500	0.14	600	
AOI2012CN8N2 □ T	8.2/250	J • K	50/1000	4700	0.16	600	
AOI2012CN8N7 □ T	8.7/250	J • K	50/500	4700	0.23	600	
AOI2012CN10N □ T	10/250	G • J • K	60/500	4200	0.10	600	
AOI2012CN12N □ T	12/250	G • J • K	50/500	4000	0.15	600	
AOI2012CN15N □ T	15/250	G • J • K	50/500	3400	0.17	600	
AOI2012CN18N □ T	18/250	G • J • K	50/500	3300	0.20	600	
AOI2012CN22N □ T	22/250	G • J • K	55/500	2600	0.22	500	
AOI2012CN24N □ T	24/250	G • J • K	50/500	2000	0.22	500	
AOI2012CN27N □ T	27/250	G • J • K	55/500	2500	0.25	500	
AOI2012CN33N □ T	33/250	G • J • K	60/500	2050	0.27	500	
AOI2012CN36N □ T	36/250	G • J • K	55/500	1700	0.27	500	
AOI2012CN39N □ T	39/250	G • J • K	60/500	2000	0.29	500	
AOI2012CN43N □ T	43/200	G • J • K	60/500	1650	0.34	500	
AOI2012CN47N □ T	47/200	G • J • K	60/500	1650	0.31	500	
AOI2012CN56N □ T	56/200	G • J • K	60/500	1550	0.34	500	
AOI2012CN68N □ T	68/200	G • J • K	60/500	1450	0.38	500	
AOI2012CN75N □ T	75/200	G • J • K	60/500	1400	0.40	400	
AOI2012CN82N □ T	82/150	G • J • K	65/500	1300	0.42	400	
AOI2012CN91N □ T	91/150	G • J • K	65/500	1200	0.48	400	
AOI2012CNR10 □ T	100/150	G • J • K	65/500	1200	0.46	400	
AOI2012CNR11 □ T	110/150	G • J • K	50/250	1000	0.48	400	
AOI2012CNR12 □ T	120/150	G • J • K	50/250	1100	0.51	400	
AOI2012CNR15 □ T	150/100	G • J • K	50/250	920	0.56	400	
AOI2012CNR16 □ T	160/100	G • J • K	50/250	900	0.60	400	
AOI2012CNR18 □ T	180/100	G • J • K	50/250	870	0.64	400	
AOI2012CNR20 □ T	200/100	G • J • K	50/250	865	0.68	400	
AOI2012CNR22 □ T	220/100	G • J • K	50/250	850	0.70	400	
AOI2012CNR24 □ T	240/100	G • J • K	44/250	690	1.00	350	
AOI2012CNR25 □ T	250/100	G • J • K	48/250	680	1.00	350	
AOI2012CNR27 □ T	270/100	G • J • K	48/250	650	1.00	350	
AOI2012CNR33 □ T	330/100	G • J • K	48/250	750	1.40	310	
AOI2012CNR39 □ T	390/100	G • J • K	48/250	560	1.50	290	
AOI2012CNR43 □ T	430/50	G • J • K	33/100	430	1.70	270	
AOI2012CNR47 □ T	470/50	G • J • K	30/100	375	1.76	250	
AOI2012CNR56 □ T	560/25	G • J • K	23/50	340	1.90	230	
AOI2012CNR62 □ T	620/25	G • J • K	23/50	220	2.20	210	
AOI2012CNR68 □ T	680/25	G • J • K	23/50	188	2.20	190	
AOI2012CNR75 □ T	750/25	G • J • K	23/50	200	2.30	180	
AOI2012CNR82 □ T	820/25	G • J • K	23/50	215	2.35	180	
AOI2012CN1R0 □ T	1000/25	G • J • K	22/50	200	2.45	180	
AOI2012CN1R2 □ T	1200/7.9	G • J • K	16/7.9	160	2.45	170	
AOI2012CN1R5 □ T	1500/7.9	G • J • K	16/7.9	120	2.50	170	
AOI2012CN1R8 □ T	1800/7.9	G • J • K	16/7.9	80	2.50	170	
AOI2012CN2R2 □ T	2200/7.9	G • J • K	16/7.9	60	2.70	160	
AOI2012CN2R7 □ T	2700/7.9	G • J • K	16/7.9	50	3.80	160	

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Irms for 15°C rise above 25°C ambient.

● □ Tolerance G : ±2% • J : ±5% • K : ±10%



Specification

AOI2520CN Series Specification							
Part Number	Inductance (nH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Min.) (MHz)	DCR (Ω) Max.	Irms (mA) Max.	
AOI2520CN10N □ T	10/50	G • J • K	50/500	4100	0.08	1000	
AOI2520CN12N □ T	12/50	G • J • K	50/500	3300	0.09	1000	
AOI2520CN15N □ T	15/50	G • J • K	45/500	2500	0.10	1000	
AOI2520CN18N □ T	18/50	G • J • K	50/350	2500	0.11	1000	
AOI2520CN22N □ T	22/50	G • J • K	55/350	2400	0.12	1000	
AOI2520CN27N □ T	27/50	G • J • K	55/350	1600	0.13	1000	
AOI2520CN33N □ T	33/50	G • J • K	60/350	1600	0.14	1000	
AOI2520CN39N □ T	39/50	G • J • K	60/350	1500	0.15	1000	
AOI2520CN47N □ T	47/50	G • J • K	65/350	1500	0.16	1000	
AOI2520CN56N □ T	56/50	G • J • K	65/350	1300	0.18	1000	
AOI2520CN68N □ T	68/50	G • J • K	65/350	1300	0.20	1000	
AOI2520CN82N □ T	82/50	G • J • K	60/350	1000	0.22	1000	
AOI2520CNR10 □ T	100/25	G • J • K	60/350	1000	0.56	650	
AOI2520CNR12 □ T	120/25	G • J • K	60/350	950	0.63	650	
AOI2520CNR15 □ T	150/25	G • J • K	45/100	850	0.70	580	
AOI2520CNR18 □ T	180/25	G • J • K	45/100	750	0.77	620	
AOI2520CNR22 □ T	220/25	G • J • K	45/100	700	0.84	500	
AOI2520CNR27 □ T	270/25	G • J • K	45/100	600	0.91	500	
AOI2520CNR33 □ T	330/25	G • J • K	45/100	570	1.05	450	
AOI2520CNR39 □ T	390/25	G • J • K	45/100	500	1.12	470	
AOI2520CNR47 □ T	470/25	G • J • K	45/100	450	1.19	470	
AOI2520CNR56 □ T	560/25	G • J • K	45/100	415	1.33	400	
AOI2520CNR62 □ T	620/25	G • J • K	45/100	375	1.40	300	
AOI2520CNR68 □ T	680/25	G • J • K	45/100	375	1.47	400	
AOI2520CNR75 □ T	750/25	G • J • K	45/100	360	1.54	360	
AOI2520CNR82 □ T	820/25	G • J • K	45/100	350	1.65	400	
AOI2520CNR91 □ T	910/25	G • J • K	35/50	320	1.68	380	
AOI2520CN1R0 □ T	1000/25	G • J • K	35/50	290	1.75	370	
AOI2520CN1R2 □ T	1200/7.9	G • J • K	35/50	250	2.00	310	
AOI2520CN1R5 □ T	1500/7.9	G • J • K	28/50	200	2.30	330	
AOI2520CN1R8 □ T	1800/7.9	G • J • K	28/50	160	2.60	300	
AOI2520CN2R2 □ T	2200/7.9	G • J • K	28/50	160	2.80	280	
AOI2520CN2R7 □ T	2700/7.9	G • J • K	22/25	135	3.20	290	
AOI2520CN3R3 □ T	3300/7.9	G • J • K	22/25	110	3.40	290	
AOI2520CN3R9 □ T	3900/7.9	G • J • K	20/25	100	3.60	260	
AOI2520CN4R7 □ T	4700/7.9	G • J • K	20/25	90	4.00	260	
AOI2520CN5R6 □ T	5600/7.9	G • J • K	18/7.9	40	4.20	240	
AOI2520CN6R8 □ T	6800/7.9	G • J • K	18/7.9	40	4.90	200	
AOI2520CN8R2 □ T	8200/7.9	G • J • K	18/7.9	25	6.10	170	
AOI2520CN100 □ T	10000/2.5	G • J • K	18/7.9	25	8.00	150	

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- I_{rms} for 15°C rise above 25°C ambient.
- □ Tolerance G : ±2% • J : ±5% • K : ±10%

AOI2012FN Series Specification							
Part Number	Inductance (uH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Min.) (MHz)	DCR (Ω) Max.	IDC (mA) Max.	
AOI2012FNR12 □ T	0.12/25	J • K	25/25	1000	0.18	1500	
AOI2012FNR15 □ T	0.15/25	J • K	25/25	1000	0.18	1400	
AOI2012FNR18 □ T	0.18/25	J • K	30/25	1000	0.20	1400	
AOI2012FNR22 □ T	0.22/25	J • K	30/25	830	0.25	1350	
AOI2012FNR27 □ T	0.27/25	J • K	30/25	800	0.38	1300	
AOI2012FNR33 □ T	0.33/25	J • K	30/25	750	0.35	1200	
AOI2012FNR39 □ T	0.39/25	J • K	30/25	700	0.35	1160	
AOI2012FNR47 □ T	0.47/25	J • K	30/25	690	0.40	1100	
AOI2012FNR56 □ T	0.56/25	J • K	30/25	640	0.40	1040	
AOI2012FNR62 □ T	0.62/25	J • K	30/25	640	0.45	980	
AOI2012FNR68 □ T	0.68/25	J • K	30/25	510	0.50	900	
AOI2012FNR82 □ T	0.82/25	J • K	30/25	500	0.50	900	
AOI2012FNR91 □ T	0.91/25	J • K	30/25	500	0.55	900	
AOI2012FN1R0 □ T	1.0/7.9	J • K	20/7.9	470	0.60	840	
AOI2012FN1R2 □ T	1.2/7.9	J • K	20/7.9	400	0.75	800	
AOI2012FN1R5 □ T	1.5/7.9	J • K	25/7.9	400	1.00	720	
AOI2012FN1R8 □ T	1.8/7.9	J • K	25/7.9	230	1.00	660	
AOI2012FN2R2 □ T	2.2/7.9	J • K	25/7.9	200	1.05	600	
AOI2012FN2R7 □ T	2.7/7.9	J • K	25/7.9	130	1.18	500	
AOI2012FN3R3 □ T	3.3/7.9	J • K	25/7.9	160	1.26	480	
AOI2012FN3R9 □ T	3.9/7.9	J • K	25/7.9	130	1.75	440	
AOI2012FN4R7 □ T	4.7/7.9	J • K	25/7.9	120	1.87	390	
AOI2012FN5R6 □ T	5.6/7.9	J • K	25/7.9	90	2.00	340	
AOI2012FN6R8 □ T	6.8/7.9	J • K	25/7.9	55	2.15	300	
AOI2012FN8R2 □ T	8.2/7.9	J • K	25/7.9	40	2.37	280	
AOI2012FN100 □ T	10/2.5	J • K	16/2.5	40	2.55	260	
AOI2012FN120 □ T	12/2.5	J • K	16/2.5	37	2.80	220	
AOI2012FN150 □ T	15/2.5	J • K	16/2.5	30	3.80	200	
AOI2012FN180 □ T	18/2.5	J • K	16/2.5	23	4.48	180	
AOI2012FN220 □ T	22/2.5	J • K	16/2.5	20	6.30	160	
AOI2012FN270 □ T	27/2.5	J • K	16/2.5	19	6.85	140	
AOI2012FN330 □ T	33/2.5	J • K	16/2.5	18	7.60	120	

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- IDC for inductance drop 10% from its value without current.
- □ Tolerance J : ±5% • K : ±10%



RF Inductors AOI Series

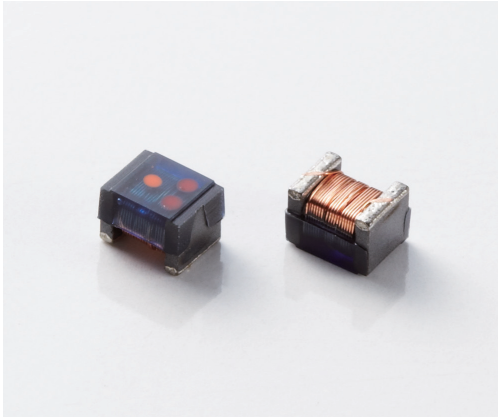
Specification

AOI2520FN Series Specification						
Part Number	Inductance (uH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Min.) (MHz)	DCR (Ω) Max.	IDC (mA) Max.
AOI2520FNR12 □ T	0.12/25	J•K	26/25	930	0.30	1000
AOI2520FNR18 □ T	0.18/25	J•K	30/25	930	0.30	960
AOI2520FNR20 □ T	0.20/25	J•K	30/25	735	0.30	960
AOI2520FNR22 □ T	0.22/25	J•K	27/25	750	0.40	880
AOI2520FNR33 □ T	0.33/25	J•K	30/25	600	0.42	900
AOI2520FNR39 □ T	0.39/25	J•K	30/25	480	0.45	920
AOI2520FNR47 □ T	0.47/25	J•K	30/25	470	0.50	920
AOI2520FNR56 □ T	0.56/25	J•K	30/25	460	0.55	900
AOI2520FNR62 □ T	0.62/25	J•K	30/25	460	0.55	900
AOI2520FNR68 □ T	0.68/25	J•K	30/25	420	0.55	880
AOI2520FNR75 □ T	0.75/25	J•K	30/25	420	0.65	880
AOI2520FNR82 □ T	0.82/25	J•K	30/25	380	0.65	840
AOI2520FNR91 □ T	0.91/25	J•K	30/25	400	0.65	840
AOI2520FN1R0 □ T	1.0/7.9	J•K	25/7.9	300	0.60	800
AOI2520FN1R2 □ T	1.2/7.9	J•K	25/7.9	280	0.74	800
AOI2520FN1R5 □ T	1.5/7.9	J•K	25/7.9	245	0.85	780
AOI2520FN1R8 □ T	1.8/7.9	J•K	25/7.9	240	0.92	780
AOI2520FN2R2 □ T	2.2/7.9	J•K	25/7.9	205	1.10	760
AOI2520FN2R7 □ T	2.7/7.9	J•K	25/7.9	187	1.22	760
AOI2520FN3R3 □ T	3.3/7.9	J•K	25/7.9	165	1.37	740
AOI2520FN3R9 □ T	3.9/7.9	J•K	25/7.9	144	1.66	700
AOI2520FN4R7 □ T	4.7/7.9	J•K	25/7.9	110	1.68	660
AOI2520FN5R6 □ T	5.6/7.9	J•K	25/7.9	88	1.75	640
AOI2520FN6R8 □ T	6.8/7.9	J•K	25/7.9	70	1.85	640
AOI2520FN8R2 □ T	8.2/7.9	J•K	25/7.9	57	2.00	600
AOI2520FN100 □ T	10/7.9	J•K	25/7.9	55	2.32	600
AOI2520FN120 □ T	12/2.5	J•K	15/2.5	52	2.99	560
AOI2520FN150 □ T	15/2.5	J•K	15/2.5	49	3.42	480
AOI2520FN180 □ T	18/2.5	J•K	15/2.5	48	4.65	420
AOI2520FN220 □ T	22/2.5	J•K	15/2.5	25	5.12	420
AOI2520FN270 □ T	27/2.5	J•K	15/2.5	23	5.76	420
AOI2520FN330 □ T	33/2.5	J•K	15/2.5	17	6.44	400
AOI2520FN390 □ T	39/2.5	J•K	15/2.5	15	6.85	380
AOI2520FN470 □ T	47/2.5	J•K	14/2.5	13	9.94	260
AOI2520FN560 □ T	56/2.5	J•K	14/2.5	10	10.70	280
AOI2520FN680 □ T	68/2.5	J•K	14/2.5	8	12.80	260
AOI2520FN820 □ T	82/2.5	J•K	14/2.5	8	18.30	240
AOI2520FN101 □ T	100/1.0	J•K	8/1.0	7	19.60	200

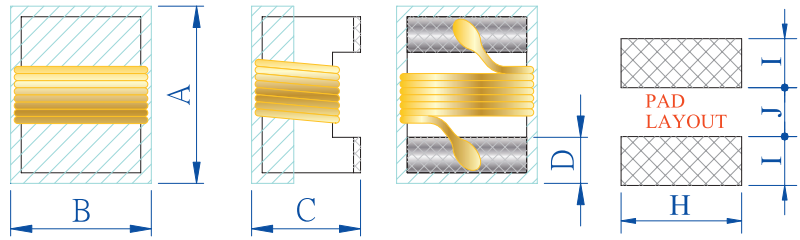
AOI3225FN Series Specification						
Part Number	Inductance (uH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Typ.) (MHz)	DCR (Ω) Max.	IDC (mA) Max.
AOI3225FNR39 □ T	0.39/25	J	40/25	500	0.30	1500
AOI3225FNR82 □ T	0.82/25	J•K	35/25	340	0.38	1300
AOI3225FN1R0 □ T	1.0/7.9	J•K	35/7.9	320	0.42	1200
AOI3225FN1R2 □ T	1.2/7.9	J•K	35/7.9	280	0.47	1100
AOI3225FN1R5 □ T	1.5/7.9	J•K	35/7.9	250	0.50	1100
AOI3225FN1R8 □ T	1.8/7.9	J•K	40/7.9	203	0.62	1000
AOI3225FN2R2 □ T	2.2/7.9	J•K	33/7.9	200	0.65	1000
AOI3225FN2R7 □ T	2.7/7.9	J•K	40/7.9	200	0.65	1000
AOI3225FN3R0 □ T	3.0/7.9	J•K	40/7.9	180	0.78	800
AOI3225FN3R3 □ T	3.3/7.9	J•K	30/7.9	146	0.83	1200
AOI3225FN3R9 □ T	3.9/7.9	J•K	30/7.9	139	1.74	900
AOI3225FN4R7 □ T	4.7/7.9	J•K	35/7.9	124	1.90	800
AOI3225FN5R6 □ T	5.6/7.9	J•K	30/7.9	114	2.05	700
AOI3225FN6R8 □ T	6.8/7.9	J•K	30/7.9	109	1.37	450
AOI3225FN100 □ T	10/2.5	J•K	23/2.5	90	1.70	590
AOI3225FN150 □ T	15/2.5	J•K	25/2.5	67	2.22	340
AOI3225FN180 □ T	18/2.5	J•K	25/2.5	57	2.42	330
AOI3225FN220 □ T	22/2.5	J•K	25/2.5	48	2.66	300
AOI3225FN270 □ T	27/2.5	J•K	25/2.5	38	2.99	250
AOI3225FN330 □ T	33/2.5	J•K	25/2.5	26	3.24	220
AOI3225FN390 □ T	39/2.5	J•K	25/2.5	24	3.61	195
AOI3225FN470 □ T	47/2.5	J•K	25/2.5	22	3.96	195
AOI3225FN560 □ T	56/2.5	J•K	25/2.5	20	4.36	190
AOI3225FN680 □ T	68/2.5	J•K	23/2.5	15	4.50	340
AOI3225FN820 □ T	82/2.5	J•K	23/2.5	15	5.95	300
AOI3225FN101 □ T	100/1	J•K	15/1	14	6.62	250
AOI3225FN121 □ T	120/1	J•K	15/1	11	7.53	190
AOI3225FN151 □ T	150/1	J•K	15/1	11	8.29	135
AOI3225FN181 □ T	180/1	J•K	15/1	10	11.53	100
AOI3225FN221 □ T	220/1	J•K	15/1	8	12.48	80

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- IDC for inductance drop 10% from its value without current.
- □ Tolerance J: ±5% • K: ±10%



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AOIC1610N	1.8 MAX.	1.2 MAX.	1.1 MAX.	0.33±0.1	1.02	0.64	0.64
AOIC2520N	2.9 MAX.	2.54 MAX.	2.03 MAX.	0.5±0.1	2.54	1.02	1.27
AOIC3225N	3.6 MAX.	2.9 MAX.	2.4 MAX.	0.5±0.1	2.70	1.20	2.00
AOIC1610D	1.8 MAX.	1.2 MAX.	1.0 MAX.	0.33	1.02	0.64	0.64
AOIC2012D	2.4 MAX.	1.65 MAX.	1.2±0.1	0.44±0.1	1.78	1.02	0.76

Features

- Utilizing a miniaturized winding structure.
- These products provide low DC resistance and high current.
- Precision inductance tolerance is available.

Applications

- Personal computers, Hard disk drives.
- ADSL modem Cable modem.
- Digital camera and other electronic equipment.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AOIC	1610	N△△△	1R0	J ±5%	T Taping reel	"A~Z"
	2012	D△△△	100	K ±10%	B Bulk	
	2520			M ±20%		
	3225					

Specification

AOIC1610N Series Specification						
Part Number	Inductance (uH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Min.) (MHz)	DCR (Ω) Max.	IDC (mA) Max.
AOIC1610N47N □ T	0.047/7.9	K	10/7.9	2000	0.075	1800
AOIC1610N51N □ T	0.051/7.9	J	12/7.9	1500	0.075	1800
AOIC1610N68N □ T	0.068/7.9	J	12/7.9	1500	0.12	1800
AOIC1610N72N □ T	0.072/7.9	K	12/7.9	1500	0.12	1800
AOIC1610NR10 □ T	0.10/7.9	K	12/7.9	1150	0.13	1700
AOIC1610NR12 □ T	0.12/7.9	J•K	12/7.9	1100	0.15	1700
AOIC1610NR15 □ T	0.15/7.9	J•K	15/7.9	1050	0.15	1600
AOIC1610NR18 □ T	0.18/7.9	J•K	15/7.9	950	0.15	1500
AOIC1610NR22 □ T	0.22/7.9	J•K	15/7.9	900	0.30	1200
AOIC1610NR24 □ T	0.24/7.9	J•K	15/7.9	850	0.33	1200
AOIC1610NR27 □ T	0.27/7.9	J•K	15/7.9	835	0.35	1180
AOIC1610NR33 □ T	0.33/7.9	J•K	15/7.9	725	0.46	1000
AOIC1610NR39 □ T	0.39/7.9	J•K	15/7.9	680	0.41	1400
AOIC1610NR47 □ T	0.47/7.9	J•K	15/7.9	640	0.43	1400
AOIC1610NR56 □ T	0.56/7.9	J•K	15/7.9	630	0.44	1400
AOIC1610NR68 □ T	0.68/7.9	J•K	15/7.9	510	0.52	1340
AOIC1610NR78 □ T	0.78/7.9	J•K	15/7.9	465	0.63	1300
AOIC1610NR82 □ T	0.82/7.9	J•K	15/7.9	460	0.69	1200
AOIC1610N1R0 □ T	1.0/7.9	J•K	15/7.9	320	0.81	1100
AOIC1610N1R2 □ T	1.2/7.9	J•K	15/7.9	270	0.87	1000
AOIC1610N1R5 □ T	1.5/7.9	J•K	15/7.9	230	0.96	920
AOIC1610N1R8 □ T	1.8/7.9	J•K	15/7.9	210	1.10	900
AOIC1610N2R2 □ T	2.2/7.9	J•K	15/7.9	115	1.20	740
AOIC1610N2R7 □ T	2.7/7.9	J•K	15/7.9	100	1.38	700
AOIC1610N3R3 □ T	3.3/7.9	J•K	15/7.9	84	1.50	680
AOIC1610N3R9 □ T	3.9/7.9	J•K	15/7.9	75	1.50	600
AOIC1610N4R7 □ T	4.7/7.9	J•K	15/7.9	67	2.10	580
AOIC1610N5R6 □ T	5.6/7.9	J•K	15/7.9	55	2.37	540
AOIC1610N6R8 □ T	6.8/7.9	J•K	15/7.9	48	3.10	500
AOIC1610N7R8 □ T	7.8/7.9	J•K	15/7.9	40	3.35	460
AOIC1610N8R2 □ T	8.2/7.9	J•K	15/7.9	38	3.50	440
AOIC1610N100 □ T	10/7.9	J•K	15/7.9	32	4.46	400

NOTE:

- The operating temperature range is -25°C to +105°C (Including self-temperature rise).
- IDC for inductance drop 10% from its value without current.
- □ Tolerance J: ±5% • K: ±10%



RF Inductors AOIC Series

Specification

AOIC2520N Series Specification						
Part Number	Inductance (uH) / MHz	Inductance Tolerance	Q (Typ.) / MHz	SRF (Min.) (MHz)	DCR (Ω) Max.	IDC (mA) Max.
AOIC2520NR22 □ T	0.22/25	J • K	35/25	800	0.15	2600
AOIC2520NR47 □ T	0.47/25	K	35/25	460	0.20	2400
AOIC2520NR82 □ T	0.82/25	J • K	35/25	360	0.35	1800
AOIC2520N1R0 □ T	1.0/7.9	K	32/7.9	340	0.34	2100
AOIC2520N1R2 □ T	1.2/7.9	J • K	25/7.9	290	0.25	1900
AOIC2520N1R5 □ T	1.5/7.9	J • K	32/7.9	230	0.42	1500
AOIC2520N1R8 □ T	1.8/7.9	J • K	27/7.9	180	0.45	1500
AOIC2520N2R2 □ T	2.2/7.9	J • K	27/7.9	140	0.50	1200
AOIC2520N2R7 □ T	2.7/7.9	J • K	27/7.9	130	0.55	1300
AOIC2520N3R3 □ T	3.3/7.9	J • K	27/7.9	125	0.60	1300
AOIC2520N3R9 □ T	3.9/7.9	J • K	27/7.9	100	0.80	1200
AOIC2520N4R7 □ T	4.7/7.9	J • K	27/7.9	90	0.90	1100
AOIC2520N5R6 □ T	5.6/7.9	J • K	27/7.9	60	1.00	1000
AOIC2520N6R8 □ T	6.8/7.9	J • K	27/7.9	60	1.05	950
AOIC2520N8R2 □ T	8.2/7.9	J • K	25/7.9	55	1.20	850
AOIC2520N100 □ T	10/2.5	J • K	23/2.5	55	1.55	800
AOIC2520N120 □ T	12/2.5	J • K	23/2.5	36	2.10	630
AOIC2520N150 □ T	15/2.5	J • K	23/2.5	36	2.38	650
AOIC2520N180 □ T	18/2.5	J • K	23/2.5	32	2.50	550
AOIC2520N220 □ T	22/2.5	J • K	23/2.5	29	2.92	550
AOIC2520N330 □ T	33/2.5	J • K	23/2.5	21	4.10	450
AOIC2520N470 □ T	47/2.5	J • K	23/2.5	17	7.80	350
AOIC2520N101 □ T	100/1.0	J • K	13/1.0	4	13.20	200
AOIC2520N221 □ T	220/1.0	J • K	13/1.0	3	26.50	140
AOIC2520N331 □ T	330/1.0	J • K	13/1.0	2	32.50	110

NOTE:

- The operating temperature range is -25°C to +105°C (Including self-temperature rise).
- IDC for inductance drop 10% from its value without current.
- □ Tolerance J: ±5% • K: ±10%

AOIC3225N Series Specification						
Part Number	Inductance (uH) / MHz	Inductance Tolerance	Q (Min.) / MHz	SRF (Min.) (MHz)	DCR (Ω) Max.	IDC (mA) Max.
AOIC3225NR39 □ T	0.39/25	J	40/25	500	0.090	3000
AOIC3225NR47 □ T	0.47/25	J • K	40/25	500	0.090	3000
AOIC3225NR56 □ T	0.56/25	K	40/25	500	0.100	3000
AOIC3225N1R0 □ T	1.0/7.9	J • K	35/7.9	340	0.125	2600
AOIC3225N1R2 □ T	1.2/7.9	K	35/7.9	280	0.135	2400
AOIC3225N1R5 □ T	1.5/7.9	K	30/7.9	160	0.145	2200
AOIC3225N1R8 □ T	1.8/7.9	J • K	30/7.9	120	0.160	2000
AOIC3225N2R2 □ T	2.2/7.9	J • K	30/7.9	100	0.170	1900
AOIC3225N2R5 □ T	2.5/7.9	J • K	30/7.9	80	0.190	1700
AOIC3225N3R3 □ T	3.3/7.9	J • K	30/7.9	70	0.210	1500
AOIC3225N4R7 □ T	4.7/7.9	J • K	28/7.9	55	0.300	1300
AOIC3225N6R8 □ T	6.8/7.9	J • K	28/7.9	45	0.370	1000
AOIC3225N8R2 □ T	8.2/7.9	J • K	28/7.9	45	0.470	940
AOIC3225N100 □ T	10/2.5	J • K	22/2.5	47	0.500	900
AOIC3225N120 □ T	12/2.5	J • K	22/2.5	42	0.680	770
AOIC3225N150 □ T	15/2.5	J • K	22/2.5	34	0.720	740
AOIC3225N180 □ T	18/2.5	J • K	22/2.5	28	0.950	630
AOIC3225N220 □ T	22/2.5	J • K	22/2.5	25	1.100	600
AOIC3225N270 □ T	27/2.5	J • K	20/2.5	18	1.250	520
AOIC3225N330 □ T	33/2.5	J • K	20/2.5	13	1.370	490
AOIC3225N470 □ T	47/2.5	J • K	20/2.5	12	1.880	400
AOIC3225N560 □ T	56/2.5	J • K	22/2.5	10	2.750	360
AOIC3225N680 □ T	68/2.5	J • K	22/2.5	10	3.000	340
AOIC3225N820 □ T	82/2.5	J • K	22/2.5	10	4.100	300
AOIC3225N101 □ T	100/1.0	J • K	15/1.0	8	4.682	270
AOIC3225N121 □ T	120/1.0	J • K	15/1.0	7	5.800	220
AOIC3225N151 □ T	150/1.0	J • K	13/1.0	7	6.102	220
AOIC3225N181 □ T	180/1.0	J • K	13/1.0	3	7.100	200
AOIC3225N221 □ T	220/1.0	J • K	13/1.0	3	7.650	180
AOIC3225N331 □ T	330/1.0	J • K	13/1.0	3	12.620	160
AOIC3225N471 □ T	470/1.0	J • K	13/1.0	3	25.00	120
AOIC3225N561 □ T	560/1.0	J • K	13/1.0	2	27.00	100
AOIC3225N681 □ T	680/1.0	J • K	13/1.0	2	31.00	100
AOIC3225N821 □ T	820/1.0	J • K	10/1.0	2	42.00	50
AOIC3225N102 □ T	1000/1.0	J • K	10/1.0	2	46.00	50

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- IDC for inductance drop 10% from its value without current.
- □ Tolerance J: ±5% • K: ±10%



Specification

AOIC1610D Series Specification								
Part Number	Inductance (uH) / MHz	Inductance Tolerance	Q (Typ.) / MHz	SRF (Typ.) (MHz)	DCR (Ω) ±30%	IDC (mA) Typ.	Irms (mA) Typ.	
AOIC1610D1R0 □ T	1.0/7.9	K,M	16/7.9	390	0.32	860	700	
AOIC1610D1R5 □ T	1.5/7.9	K,M	16/7.9	160	0.40	720	600	
AOIC1610D1R8 □ T	1.8/7.9	K,M	16/7.9	121	0.43	640	580	
AOIC1610D2R2 □ T	2.2/7.9	K,M	16/7.9	103	0.56	600	580	
AOIC1610D2R7 □ T	2.7/7.9	K,M	16/7.9	72	0.62	540	500	
AOIC1610D3R3 □ T	3.3/7.9	K,M	16/7.9	66	0.70	500	500	
AOIC1610D3R9 □ T	3.9/7.9	K,M	16/7.9	61	0.83	460	460	
AOIC1610D4R7 □ T	4.7/7.9	K,M	16/7.9	51	0.97	400	420	
AOIC1610D5R6 □ T	5.6/7.9	K,M	16/7.9	47	1.10	380	380	
AOIC1610D6R8 □ T	6.8/7.9	K,M	16/7.9	43	1.50	340	340	
AOIC1610D8R2 □ T	8.2/7.9	K,M	16/7.9	40	1.68	300	300	
AOIC1610D100 □ T	10/2.5	K,M	14/2.5	36	1.85	280	280	
AOIC1610D120 □ T	12/2.5	K,M	14/2.5	32	2.28	260	260	
AOIC1610D150 □ T	15/2.5	K,M	14/2.5	29	2.60	240	240	
AOIC1610D180 □ T	18/2.5	K,M	14/2.5	28	2.90	220	220	
AOIC1610D220 □ T	22/2.5	K,M	14/2.5	24	3.61	200	200	
AOIC1610D270 □ T	27/2.5	K,M	14/2.5	20	5.20	140	140	
AOIC1610D330 □ T	33/2.5	K,M	14/2.5	15	6.60	120	120	

NOTE:

- The operating temperature range is -40°C to +105°C (Including self-temperature rise).
- IDC for inductance drop 10% from its value without current.
- □ Tolerance K : ±10% • M : ±20%
- Irms for 15°C rise above 25°C ambient.

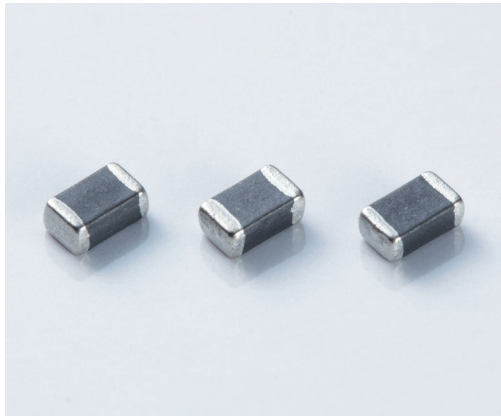
AOIC2012D Series Specification								
Part Number	Inductance (uH) / MHz	Inductance Tolerance	Q (Typ.) / MHz	SRF (Typ.) (MHz)	DCR (Ω) ±30%	IDC (mA) Typ.	Irms (mA) Typ.	
AOIC2012D1R0 □ T	1.0/7.9	K,M	14/7.9	208	0.13	1100	1300	
AOIC2012D1R2 □ T	1.2/7.9	K,M	14/7.9	159	0.16	960	1270	
AOIC2012D1R5 □ T	1.5/7.9	K,M	14/7.9	159	0.17	920	1260	
AOIC2012D1R8 □ T	1.8/7.9	K,M	14/7.9	112	0.20	860	1080	
AOIC2012D2R2 □ T	2.2/7.9	K,M	13/7.9	87	0.22	740	1040	
AOIC2012D2R7 □ T	2.7/7.9	K,M	13/7.9	72	0.25	680	1040	
AOIC2012D3R3 □ T	3.3/7.9	K,M	12/7.9	70	0.28	620	1020	
AOIC2012D3R9 □ T	3.9/7.9	K,M	14/7.9	61	0.38	580	960	
AOIC2012D4R7 □ T	4.7/7.9	K,M	14/7.9	51	0.43	520	840	
AOIC2012D5R6 □ T	5.6/7.9	K,M	12/7.9	47	0.50	480	800	
AOIC2012D6R8 □ T	6.8/7.9	K,M	14/7.9	46	0.68	420	700	
AOIC2012D8R2 □ T	8.2/7.9	K,M	13/7.9	33	0.73	400	680	
AOIC2012D100 □ T	10/2.5	J,K,M	14/2.5	31	0.85	360	560	
AOIC2012D120 □ T	12/2.5	J,K,M	14/2.5	30	0.90	340	460	
AOIC2012D150 □ T	15/2.5	J,K,M	15/2.5	28	1.40	300	380	
AOIC2012D180 □ T	18/2.5	J,K,M	15/2.5	27	1.55	280	360	
AOIC2012D220 □ T	22/2.5	J,K,M	15/2.5	20	1.76	240	340	
AOIC2012D270 □ T	27/2.5	J,K,M	15/2.5	17	2.00	220	300	
AOIC2012D330 □ T	33/2.5	J,K,M	15/2.5	17	2.35	200	300	
AOIC2012D470 □ T	47/2.5	J,K,M	14/2.5	15	3.40	160	280	
AOIC2012D560 □ T	56/2.5	J,K,M	14/2.5	10	4.42	150	240	
AOIC2012D680 □ T	68/2.5	J,K,M	14/2.5	10	4.45	140	240	
AOIC2012D820 □ T	82/2.5	J,K,M	14/2.5	10	7.50	100	180	
AOIC2012D101 □ T	100/1.0	J,K,M	10/1.0	9	7.50	100	180	

NOTE:

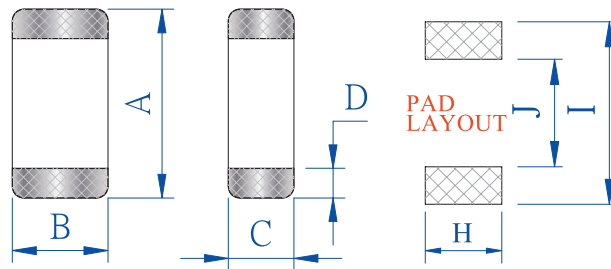
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- IDC for inductance drop 10% from its value without current.
- □ Tolerance J : ±5% • K : ±10% • M : ±20%
- Irms for 15°C rise above 25°C ambient.



RF Inductors AIGC Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AIGC160808C	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.3 ± 0.2	0.6~0.8	1.8~2.0	0.7~0.8
AIGC201210C	2.0 ± 0.2	1.25 ± 0.2	1.0 MAX.	0.5 ± 0.3	1.0~1.4	2.3~2.9	0.8~1.2
AIGC201610C	2.0 ± 0.2	1.6 ± 0.2	1.0 MAX.	0.5 ± 0.3	1.6~2.0	2.1~2.7	0.8~1.2
AIGC252010C	2.5 ± 0.2	2.0 ± 0.2	1.0 MAX.	0.6 ± 0.2	2.0~2.6	2.7~3.5	1.3~1.9
AIGC252012C	2.5 ± 0.2	2.0 ± 0.2	1.2 MAX.	0.6 ± 0.2	2.0~2.6	2.7~3.5	1.3~1.9

Features

- RoHS compliant.
- Small size.
- Low profile.
- High current.
- Magnetically shielded configuration allowing for high density mounting.

Applications

- DC-DC converters.
- Power modules.
- Cellular phones.
- DSC, PND, DVD.
- Wireless card and other electronic devices.

Product Identification

①		②		③		④		⑤		⑥		⑦	
Product	Dimension	Type		Inductance (uH)		Tolerance		Package		Special product			
AIGC	160808	C△△	Type Code	2R2	2.2	M ±20%		T	Taping reel	"A~Z"			
	201210			4R7	4.7	Y ±30%		B	Bulk				
	201610												
	252010/252012												

Specification

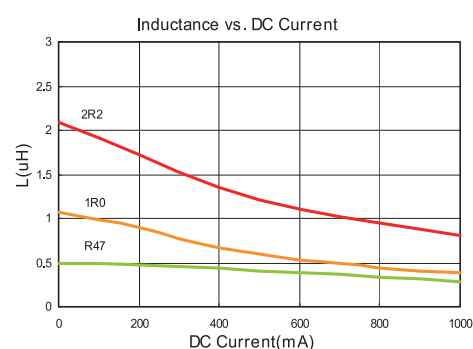
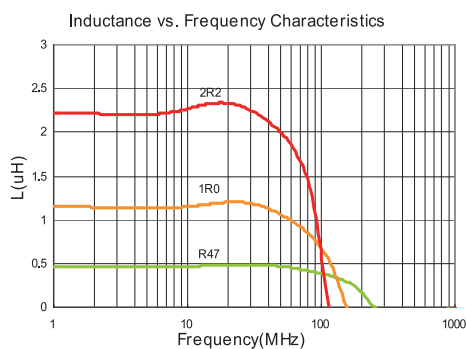
AIGC160808C Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) ±30%	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC160808C-R47 □ T	0.47	M,Y	3	0.15	400	1100
AIGC160808C-1R0 □ T	1.0	M,Y	3	0.20	200	950
AIGC160808C-2R2 □ T	2.2	M,Y	3	0.30	150	750

NOTE:

● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

● □ Tolerance M: ±20% • Y: ±30%

Electrical Characteristics





Specification

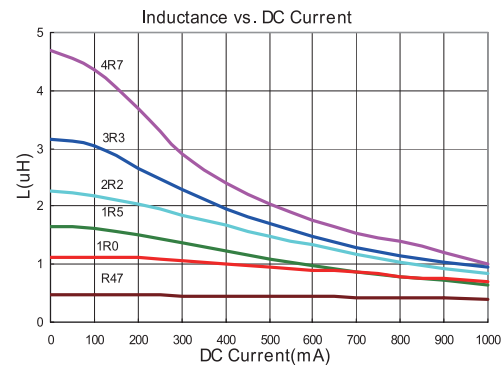
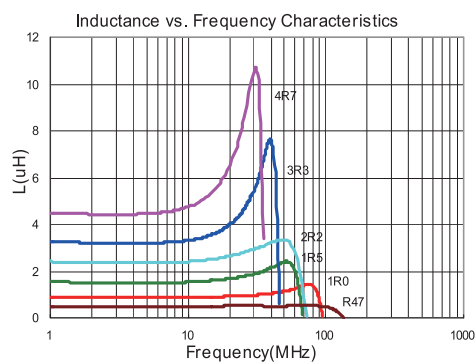
AIGC201210C Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) ±30%	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC201210C-R47 □ T	0.47	M,Y	3	0.09	1100	1300
AIGC201210C-1R0 □ T	1.0	M,Y	3	0.12	650	1200
AIGC201210C-1R5 □ T	1.5	M,Y	3	0.15	450	1100
AIGC201210C-2R2 □ T	2.2	M,Y	3	0.19	400	1100
AIGC201210C-3R3 □ T	3.3	M,Y	3	0.24	300	800
AIGC201210C-4R7 □ T	4.7	M,Y	3	0.26	200	700

NOTE:

● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

● □ Tolerance M : ±20% • Y : ±30%

Electrical Characteristics



Specification

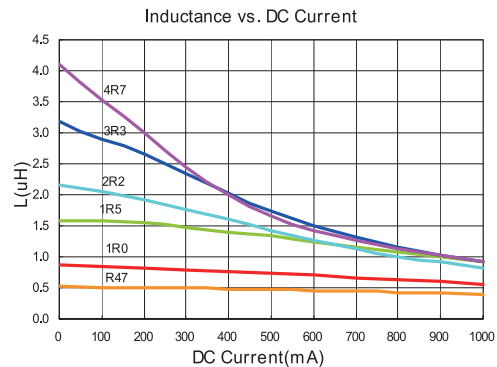
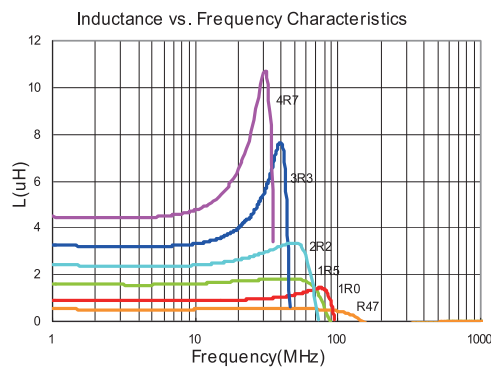
AIGC201610C Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) ±25%	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC201610C-R47 □ TA	0.47	M,Y	3	0.06	1200	1600
AIGC201610C-1R0 □ TA	1.0	M,Y	3	0.085	850	1300
AIGC201610C-1R5 □ TA	1.5	M,Y	3	0.11	600	1200
AIGC201610C-2R2 □ TA	2.2	M,Y	3	0.11	400	1200
AIGC201610C-3R3 □ TA	3.3	M,Y	3	0.12	350	850
AIGC201610C-4R7 □ TA	4.7	M,Y	3	0.14	200	1100

NOTE:

● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

● □ Tolerance M : ±20% • Y : ±30%

Electrical Characteristics





RF Inductors AIGC Series

Specification

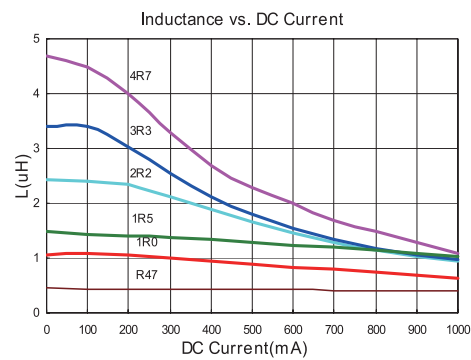
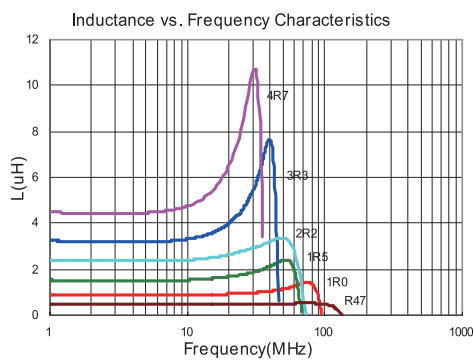
AIGC252010C Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) ±25%	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC252010C-R47 □ TA	0.47	M,Y	3	0.04	1500	1800
AIGC252010C-1R0 □ TA	1.0	M,Y	3	0.055	900	1600
AIGC252010C-1R5 □ T	1.5	M,Y	3	0.07±30%	800	1400
AIGC252010C-2R2 □ TA	2.2	M,Y	3	0.08	500	1300
AIGC252010C-3R3 □ TA	3.3	M,Y	3	0.10	400	1200
AIGC252010C-4R7 □ TA	4.7	M,Y	3	0.11	300	1100

NOTE:

● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

● □ Tolerance M : ±20% • Y : ±30%

Electrical Characteristics



Specification

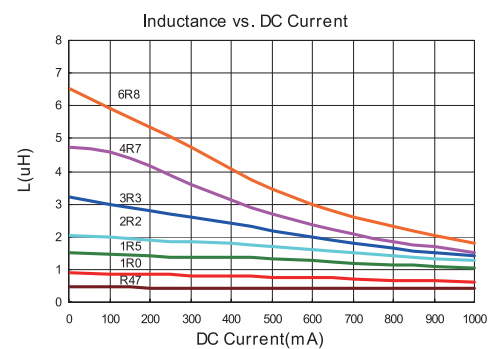
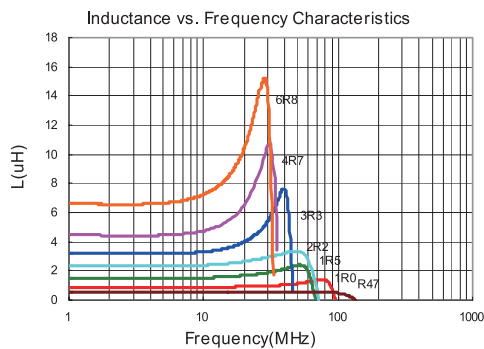
AIGC252012C Series Specification						
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (MHz)	DCR (Ω) ±30%	Saturation Current (mA) Max.	Temp. Rise current (mA) Max.
AIGC252012C-R47 □ T	0.47	M,Y	3	0.04	1500	1800
AIGC252012C-1R0 □ T	1.0	M,Y	3	0.05	950	1600
AIGC252012C-1R5 □ T	1.5	M,Y	3	0.07	900	1400
AIGC252012C-2R2 □ T	2.2	M,Y	3	0.10	700	1200
AIGC252012C-3R3 □ T	3.3	M,Y	3	0.12	500	1100
AIGC252012C-4R7 □ T	4.7	M,Y	3	0.14	350	1000
AIGC252012C-6R8 □ T	6.8	M,Y	3	0.16	250	900

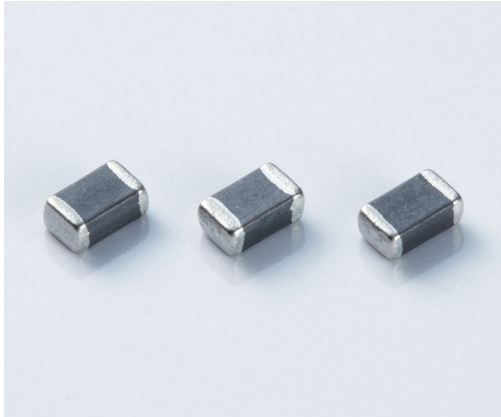
NOTE:

● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

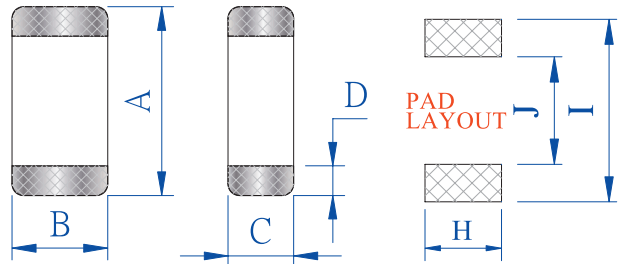
● □ Tolerance M : ±20% • Y : ±30%

Electrical Characteristics





Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AIG1608	1.6 ± 0.2	0.8 ± 0.2	0.8 ± 0.2	0.3 ± 0.2	0.6~0.8	1.8~2.0	0.7~0.8
AIG2012	2.0 ± 0.2	1.25 ± 0.2	*1 0.9 ± 0.2	0.5 ± 0.3	1.0~1.2	2.6~4.0	1.0~1.2
AIG2012	2.0 ± 0.2	1.25 ± 0.2	*2 1.25 ± 0.2	0.5 ± 0.3	1.0~1.2	2.6~4.0	1.0~1.2

*1) 47N~2R2=0.9±0.2 *2) 2R7~100=1.25±0.2

Features

- Two functional areas include resonant circuits and chokes require use of an inductor.

Applications

- RF and wireless communication, information technology equipment which includes computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, audio equipment, PDAs, keyless remote systems and low-voltage power supply modules.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
AIGC	160808 201210 201610 252010/252012	C△△ Type Code	2R2 2.2 4R7 4.7	M ±20% Y ±30%	T Taping reel B Bulk	"A-Z"

Specification

AIG1608 Series Specification						
Part Number	Inductance (uH)	Q Min.	Test Freq. (MHz)	SRF (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.
AIG1608-47N □ T	0.047	10	50	260	0.30	50
AIG1608-68N □ T	0.068	10	50	250	0.30	50
AIG1608-R10 □ T	0.10	15	25	240	0.50	50
AIG1608-R12 □ T	0.12	15	25	205	0.50	50
AIG1608-R15 □ T	0.15	15	25	180	0.60	50
AIG1608-R18 □ T	0.18	15	25	165	0.60	50
AIG1608-R22 □ T	0.22	15	25	150	0.80	50
AIG1608-R27 □ T	0.27	15	25	136	0.80	50
AIG1608-R33 □ T	0.33	15	25	125	0.85	35
AIG1608-R39 □ T	0.39	15	25	110	1.00	35
AIG1608-R47 □ T	0.47	15	25	105	1.35	35
AIG1608-R56 □ T	0.56	15	25	95	1.55	35
AIG1608-R68 □ T	0.68	15	25	90	1.70	35
AIG1608-R82 □ T	0.82	15	25	85	2.10	35
AIG1608-1R0 □ T	1.0	35	10	75	0.60	25
AIG1608-1R2 □ T	1.2	35	10	65	0.80	25
AIG1608-1R5 □ T	1.5	35	10	60	0.80	25
AIG1608-1R8 □ T	1.8	35	10	55	0.95	25
AIG1608-2R2 □ T	2.2	35	10	50	1.15	15
AIG1608-2R7 □ T	2.7	35	10	45	1.35	15
AIG1608-3R3 □ T	3.3	35	10	40	1.55	15
AIG1608-3R9 □ T	3.9	35	10	35	1.70	15
AIG1608-4R7 □ T	4.7	35	10	33	2.10	15
AIG1608-5R6 □ T	5.6	35	4	22	1.55	5
AIG1608-6R8 □ T	6.8	35	4	20	1.70	5
AIG1608-8R2 □ T	8.2	35	4	18	2.10	5
AIG1608-100 □ T	10	30	2	17	1.85	3

NOTE:

● The operating temperature range is -40°C to +125°C (Including self-temperature rise).

● □ Tolerance K: ±10% • M: ±20%



RF Inductors AIG Series

Specification

AIG2012 Series Specification						
Part Number	Inductance (uH)	Q Min.	Test Freq. (MHz)	SRF (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.
AIG2012-47N □ T	0.047	15	50	320	0.20	300
AIG2012-68N □ T	0.068	15	50	280	0.20	300
AIG2012-R10 □ T	0.10	20	25	235	0.30	250
AIG2012-R12 □ T	0.12	20	25	220	0.30	250
AIG2012-R15 □ T	0.15	20	25	200	0.40	250
AIG2012-R18 □ T	0.18	20	25	185	0.40	250
AIG2012-R22 □ T	0.22	20	25	170	0.50	250
AIG2012-R27 □ T	0.27	20	25	150	0.50	250
AIG2012-R33 □ T	0.33	20	25	145	0.55	250
AIG2012-R39 □ T	0.39	25	25	135	0.65	200
AIG2012-R47 □ T	0.47	25	25	125	0.65	200
AIG2012-R56 □ T	0.56	25	25	115	0.75	150
AIG2012-R68 □ T	0.68	25	25	105	0.80	150
AIG2012-R82 □ T	0.82	25	25	100	1.00	150
AIG2012-1R0 □ T	1.0	45	10	75	0.40	50
AIG2012-1R2 □ T	1.2	45	10	65	0.50	50
AIG2012-1R5 □ T	1.5	45	10	60	0.50	50
AIG2012-1R8 □ T	1.8	45	10	55	0.60	50
AIG2012-2R2 □ T	2.2	45	10	50	0.65	30
AIG2012-2R7 □ T	2.7	45	10	45	0.75	30
AIG2012-3R3 □ T	3.3	45	10	41	0.80	30
AIG2012-3R9 □ T	3.9	45	10	38	0.90	30
AIG2012-4R7 □ T	4.7	45	10	35	1.00	30
AIG2012-5R6 □ T	5.6	50	4	32	0.90	15
AIG2012-6R8 □ T	6.8	50	4	29	1.00	15
AIG2012-8R2 □ T	8.2	50	4	26	1.10	15
AIG2012-100 □ T	10	50	2	24	1.15	15

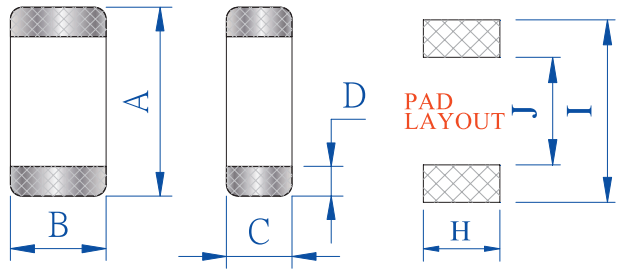
NOTE:

● The operating temperature range is -40°C to +125°C (Including self-temperature rise).

● □ Tolerance K : ±10% • M : ±20%



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AIF1005L	1.0 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	0.25 ± 0.1	0.5	1.2~1.4	0.4
AIF1608L	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.3 ± 0.2	0.6~0.8	1.8~2.0	0.7~0.8

Features

- Excellent Q factor and SRF characteristics.
- Small size of 1005/1608 is suitable for small portable equipment.
- Supports operating frequency bands up to 6 GHz with nominal inductance values from 1.0 nH To 470 nH.

Applications

- RF Resonance and Impedance Matching Circuit.
- RF and wireless communication.
- Information technology equipments, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems.
- Use in L-C filter configurations.

Product Identification

①	②	③	④	⑤	⑥	⑦
AIF	1005 △ △	△ △ △ - 1N0	S	T	△	
Product	Dimension	Type	Inductance (nH)	Tolerance	Package	Special product
AIF	1005 1608	L △ △ Type Code	1N0 1.0	S ±0.3nH J ±5% K ±10%	T Taping reel B Bulk	"A~Z"

Specification

AIF1005L Series Specification								
Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	IDC (mA) Max.	
AIF1005L-1N0 □ TS	1.0	S	8	100	10000	0.07	400	
AIF1005L-1N2 □ TS	1.2	S	8	100	10000	0.09	400	
AIF1005L-1N5 □ TS	1.5	S	8	100	9000	0.10	400	
AIF1005L-1N8 □ TS	1.8	S	8	100	8700	0.10	400	
AIF1005L-2N0 □ TS	2.0	S	8	100	8100	0.10	400	
AIF1005L-2N2 □ TS	2.2	S	8	100	8100	0.12	400	
AIF1005L-2N4 □ TS	2.4	S	8	100	7700	0.15	400	
AIF1005L-2N7 □ TS	2.7	S	8	100	7700	0.15	400	
AIF1005L-3N0 □ TS	3.0	S	8	100	6300	0.15	400	
AIF1005L-3N3 □ TS	3.3	S • K	8	100	6300	0.15	400	
AIF1005L-3N6 □ TS	3.6	S • K	8	100	6100	0.15	400	
AIF1005L-3N9 □ TS	3.9	S • K	8	100	6100	0.18	400	
AIF1005L-4N3 □ TS	4.3	S • K	8	100	6000	0.18	400	
AIF1005L-4N7 □ TS	4.7	S • K	8	100	6000	0.18	400	
AIF1005L-5N6 □ TS	5.6	S • K	8	100	5100	0.20	400	
AIF1005L-6N8 □ TS	6.8	J • K	8	100	4550	0.24	400	
AIF1005L-8N2 □ TS	8.2	J • K	8	100	4100	0.24	300	
AIF1005L-10N □ TS	10	J • K	8	100	3900	0.26	300	
AIF1005L-12N □ TS	12	J • K	8	100	3000	0.40	300	
AIF1005L-15N □ TS	15	J • K	8	100	2800	0.50	300	
AIF1005L-18N □ TS	18	J • K	8	100	2500	0.55	300	
AIF1005L-22N □ TS	22	J • K	8	100	2200	0.70	300	
AIF1005L-27N □ TS	27	J • K	8	100	2000	0.80	300	
AIF1005L-33N □ TS	33	J • K	8	100	1800	0.90	200	
AIF1005L-39N □ TS	39	J • K	8	100	1600	1.00	150	
AIF1005L-47N □ TS	47	J • K	8	100	1400	1.20	150	
AIF1005L-56N □ TS	56	J • K	8	100	1300	1.30	150	
AIF1005L-68N □ TS	68	J • K	8	100	1100	1.50	100	
AIF1005L-82N □ TS	82	J • K	8	100	1000	1.60	100	
AIF1005L-R10 □ TS	100	J • K	8	100	900	2.00	100	

NOTE:

• The operating temperature range is -55°C to +125°C (Including self-temperature rise).

• □ Tolerance S : ±0.3nH • J : ±5% • K : ±10%



RF Inductors AIF_L Series

Specification

AIF1608L Series Specification								
Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	IDC (mA) Max.	
AIF1608L-1N0 □ TS	1.0	S	8	100	10000	0.10	600	
AIF1608L-1N2 □ TS	1.2	S	8	100	10000	0.10	600	
AIF1608L-1N5 □ TS	1.5	S	8	100	8000	0.10	600	
AIF1608L-1N8 □ TS	1.8	S	8	100	8000	0.10	600	
AIF1608L-2N2 □ TS	2.2	S	8	100	7200	0.10	600	
AIF1608L-2N7 □ TS	2.7	S	10	100	6200	0.10	600	
AIF1608L-3N0 □ TS	3.0	S	10	100	5200	0.12	600	
AIF1608L-3N3 □ TS	3.3	S • K	10	100	5200	0.12	600	
AIF1608L-3N9 □ TS	3.9	S • K	10	100	5000	0.14	600	
AIF1608L-4N7 □ TS	4.7	S • K	10	100	4750	0.16	600	
AIF1608L-5N6 □ TS	5.6	S • K	10	100	4100	0.18	600	
AIF1608L-6N8 □ TS	6.8	J • K	10	100	3750	0.22	600	
AIF1608L-8N2 □ TS	8.2	J • K	10	100	3300	0.24	600	
AIF1608L-10N □ TS	10	J • K	12	100	3000	0.26	600	
AIF1608L-12N □ TS	12	J • K	12	100	2600	0.28	600	
AIF1608L-15N □ TS	15	J • K	12	100	2500	0.32	600	
AIF1608L-18N □ TS	18	J • K	12	100	2400	0.35	600	
AIF1608L-22N □ TS	22	J • K	12	100	2000	0.40	500	
AIF1608L-27N □ TS	27	J • K	12	100	1900	0.45	500	
AIF1608L-33N □ TS	33	J • K	12	100	1600	0.55	400	
AIF1608L-39N □ TS	39	J • K	12	100	1400	0.60	400	
AIF1608L-47N □ TS	47	J • K	12	100	1300	0.70	400	
AIF1608L-56N □ TS	56	J • K	12	100	1100	0.75	400	
AIF1608L-62N □ TS	62	J • K	12	100	1050	0.85	400	
AIF1608L-68N □ TS	68	J • K	12	100	1050	0.85	400	
AIF1608L-82N □ TS	82	J • K	12	100	900	1.00	300	
AIF1608L-R10 □ TS	100	J • K	12	100	770	1.20	300	
AIF1608L-R12 □ TS	120	J • K	8	50	650	1.30	300	
AIF1608L-R15 □ TS	150	J • K	8	50	550	1.70	250	
AIF1608L-R18 □ TS	180	J • K	8	50	520	1.90	250	
AIF1608L-R22 □ TS	220	J • K	8	50	500	2.00	250	
AIF1608L-R27 □ TS	270	J • K	8	50	470	2.20	150	
AIF1608L-R33 □ TS	330	J • K	8	50	320	2.80	100	
AIF1608L-R39 □ TS	390	J • K	8	50	300	3.00	100	

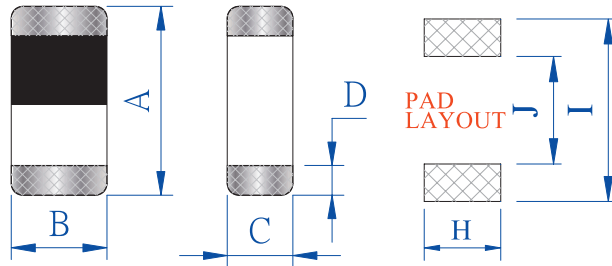
NOTE:

● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

● □ Tolerance S : $\pm 0.3\text{nH}$ • J : $\pm 5\%$ • K : $\pm 10\%$



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AIF0603H	0.6 ± 0.03	0.3 ± 0.03	0.3 ± 0.03	0.1~0.2	0.3	0.75~1.05	0.3
AIF1005H	1.0 ± 0.10	0.5 ± 0.05	0.5 ± 0.05	0.1~0.3	0.5	1.2~1.4	0.4
AIF1608H	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.2~0.6	0.6~0.8	1.8~2.0	0.7~0.8

Features

- Excellent Q factor and SRF characteristics.
- Small size of 0603/1005/1608 is suitable for small portable equipment.
- Supports operating frequency bands up to 6 GHz with nominal inductance values from 1.0 nH To 470 nH.

Applications

- RF Resonance and Impedance Matching Circuit.
- RF and wireless communication.
- Information technology equipments, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems.
- Use in L-C filter configurations.

Product Identification

①	②	③	④	⑤	⑥	⑦
AIF	1005△△	△△△ - 1N0	S	T	△	
Product	Dimension	Type	Inductance (nH)	Tolerance	Package	Special product
AIF	0603 1005/1608	H△△ Type Code	1N0 1.0	B ±0.1nH C ±0.2nH S ±0.3nH H ±3% J ±5%	T Taping reel B Bulk	"A~Z"



RF Inductors AIF_H Series

Specification

AIF0603H Series Specification							
Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF(MHz)Min.	DCR (Ω) Max.	Rated Current (mA) Max.
AIF0603H-1N0 □ T	1.0	B • C • S	4	100	10000	0.11	470
AIF0603H-1N2 □ T	1.2	B • C • S	4	100	10000	0.12	450
AIF0603H-1N5 □ T	1.5	B • C • S	4	100	10000	0.13	430
AIF0603H-1N8 □ T	1.8	B • C • S	4	100	10000	0.16	390
AIF0603H-2N0 □ T	2.0	B • C • S	4	100	10000	0.17	380
AIF0603H-2N1 □ T	2.1	B • C • S	4	100	10000	0.17	380
AIF0603H-2N2 □ T	2.2	B • C • S	4	100	8800	0.19	360
AIF0603H-2N4 □ T	2.4	B • C • S	4	100	8300	0.20	350
AIF0603H-2N7 □ T	2.7	B • C • S	4	100	7700	0.21	340
AIF0603H-3N0 □ T	3.0	B • C • S	4	100	7200	0.22	330
AIF0603H-3N3 □ T	3.3	B • C • S	4	100	6700	0.23	320
AIF0603H-3N6 □ T	3.6	B • C • S	4	100	6400	0.25	310
AIF0603H-3N9 □ T	3.9	B • C • S	4	100	6000	0.27	300
AIF0603H-4N3 □ T	4.3	B • C • S	4	100	5700	0.30	280
AIF0603H-4N7 □ T	4.7	B • C • S	4	100	5300	0.30	280
AIF0603H-5N1 □ T	5.1	B • C • S	4	100	5000	0.33	270
AIF0603H-5N6 □ T	5.6	B • C • S	4	100	4600	0.36	260
AIF0603H-6N2 □ T	6.2	B • C • S	4	100	4200	0.38	250
AIF0603H-6N8 □ T	6.8	H • J	4	100	3900	0.39	250
AIF0603H-7N5 □ T	7.5	H • J	4	100	3600	0.41	240
AIF0603H-8N2 □ T	8.2	H • J	4	100	3400	0.45	230
AIF0603H-9N1 □ T	9.1	H • J	4	100	3200	0.48	220
AIF0603H-10N □ T	10	H • J	4	100	2900	0.51	220
AIF0603H-12N □ T	12	H • J	4	100	2700	0.68	190
AIF0603H-15N □ T	15	H • J	4	100	2300	0.71	180
AIF0603H-18N □ T	18	H • J	4	100	2100	0.81	170
AIF0603H-22N □ T	22	H • J	4	100	1800	1.00	150
AIF0603H-27N □ T	27	H • J	4	100	1800	1.35	120
AIF0603H-33N □ T	33	H • J	4	100	1700	1.47	110

NOTE:

● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

● □ Tolerance B : ±0.1nH • C : ±0.2nH • S : ±0.3nH • H : ±3% • J : ±5%

AIF1005H Series Specification							
Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF(GHz)Min.	DCR (Ω) Max.	Rated Current (mA) Max.
AIF1005H-1N0 □ T	1.0	S	8	100	8.0	0.10	300
AIF1005H-1N2 □ T	1.2	S	8	100	8.0	0.10	300
AIF1005H-1N5 □ T	1.5	S	8	100	8.0	0.10	300
AIF1005H-1N8 □ T	1.8	S	8	100	6.0	0.10	300
AIF1005H-2N0 □ T	2.0	S	8	100	6.0	0.12	300
AIF1005H-2N2 □ T	2.2	S	8	100	6.0	0.15	300
AIF1005H-2N4 □ T	2.4	S	8	100	6.0	0.16	300
AIF1005H-2N7 □ T	2.7	S	8	100	6.0	0.17	300
AIF1005H-3N0 □ T	3.0	S	8	100	6.0	0.18	300
AIF1005H-3N3 □ T	3.3	S	8	100	6.0	0.19	300
AIF1005H-3N6 □ T	3.6	S	8	100	6.0	0.19	300
AIF1005H-3N9 □ T	3.9	S	8	100	6.0	0.19	300
AIF1005H-4N3 □ T	4.3	S	8	100	4.0	0.21	300
AIF1005H-4N7 □ T	4.7	S	8	100	6.0	0.23	300
AIF1005H-5N1 □ T	5.1	S	8	100	6.0	0.24	300
AIF1005H-5N6 □ T	5.6	S	8	100	5.3	0.26	300
AIF1005H-6N2 □ T	6.2	S	8	100	4.3	0.27	300
AIF1005H-6N8 □ T	6.8	J	8	100	4.2	0.29	300
AIF1005H-7N5 □ T	7.5	J	8	100	4.2	0.31	300
AIF1005H-8N2 □ T	8.2	J	8	100	3.6	0.33	300
AIF1005H-9N1 □ T	9.1	J	8	100	3.4	0.34	300
AIF1005H-10N □ T	10	J	8	100	3.2	0.35	300
AIF1005H-12N □ T	12	J	8	100	2.8	0.41	300
AIF1005H-15N □ T	15	J	8	100	2.3	0.46	300
AIF1005H-18N □ T	18	J	8	100	2.1	0.51	300
AIF1005H-22N □ T	22	J	8	100	1.8	0.58	300
AIF1005H-27N □ T	27	J	8	100	1.6	0.67	300
AIF1005H-33N □ T	33	J	8	100	1.5	0.67	200
AIF1005H-39N □ T	39	J	8	100	1.2	1.06	200
AIF1005H-47N □ T	47	J	8	100	1.0	1.15	200
AIF1005H-56N □ T	56	J	8	100	0.8	1.20	200
AIF1005H-68N □ T	68	J	8	100	0.8	1.25	180
AIF1005H-82N □ T	82	J	8	100	0.6	1.60	150
AIF1005H-R10 □ T	100	J	8	100	0.6	1.60	150
AIF1005H-R12 □ T	120	J	8	100	0.6	1.60	150
AIF1005H-R15 □ T	150	J	8	100	0.5	2.99	140
AIF1005H-R18 □ T	180	J	8	100	0.5	3.38	150
AIF1005H-R22 □ T	220	J	8	100	0.5	3.77	120
AIF1005H-R27 □ T	270	J	8	100	0.4	4.90	110

NOTE:

● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

● □ Tolerance S : ±0.3nH • J : ±5%

RF Inductors AIF_H Series



Specification

AIF1608H Series Specification							
Part Number	Inductance (nH)	Inductance Tolerance	Q Min.	Test Freq. (MHz)	SRF(GHz)Min.	DCR (Ω) Max.	Rated Current (mA) Max.
AIF1608H-1N0 □ T	1.0	S	8	100	10.00	0.05	300
AIF1608H-1N2 □ T	1.2	S	8	100	10.00	0.05	300
AIF1608H-1N5 □ T	1.5	S	8	100	6.00	0.10	300
AIF1608H-1N8 □ T	1.8	S	8	100	6.00	0.10	300
AIF1608H-2N2 □ T	2.2	S	8	100	6.00	0.10	300
AIF1608H-2N7 □ T	2.7	S	10	100	6.00	0.10	300
AIF1608H-3N3 □ T	3.3	S	10	100	6.00	0.12	300
AIF1608H-3N9 □ T	3.9	S	10	100	6.00	0.14	300
AIF1608H-4N7 □ T	4.7	S	10	100	4.00	0.16	300
AIF1608H-5N6 □ T	5.6	S	10	100	4.00	0.18	300
AIF1608H-6N8 □ T	6.8	J	10	100	4.00	0.22	300
AIF1608H-8N2 □ T	8.2	J	10	100	3.50	0.24	300
AIF1608H-10N □ T	10	J	12	100	3.40	0.26	300
AIF1608H-12N □ T	12	J	12	100	2.60	0.28	300
AIF1608H-15N □ T	15	J	12	100	2.30	0.32	300
AIF1608H-18N □ T	18	J	12	100	2.00	0.35	300
AIF1608H-22N □ T	22	J	12	100	1.60	0.40	300
AIF1608H-27N □ T	27	J	12	100	1.40	0.45	300
AIF1608H-33N □ T	33	J	12	100	1.20	0.55	300
AIF1608H-39N □ T	39	J	12	100	1.10	0.60	300
AIF1608H-47N □ T	47	J	12	100	0.90	0.70	300
AIF1608H-56N □ T	56	J	12	100	0.90	0.75	300
AIF1608H-68N □ T	68	J	12	100	0.70	0.85	300
AIF1608H-82N □ T	82	J	12	100	0.60	0.95	300
AIF1608H-R10 □ T	100	J	12	100	0.60	1.00	300
AIF1608H-R12 □ T	120	J	8	50	0.50	1.20	300
AIF1608H-R15 □ T	150	J	8	50	0.50	1.20	300
AIF1608H-R18 □ T	180	J	8	50	0.40	1.30	300
AIF1608H-R22 □ T	220	J	8	50	0.40	1.50	300
AIF1608H-R27 □ T	270	J	8	50	0.40	1.90	300
AIF1608H-R33 □ T	330	J	8	50	0.35	2.10	300
AIF1608H-R39 □ T	390	J	8	50	0.35	2.30	150
AIF1608H-R47 □ T	470	J	8	50	0.30	2.60	150

NOTE:

● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

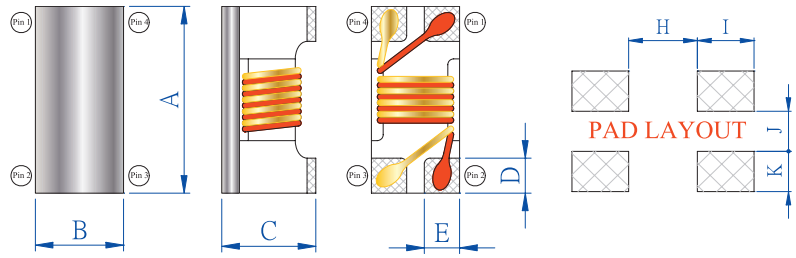
● □ Tolerance S : ±0.3nH • J : ±5%



EMI Suppression Filters ATCM Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)	K (Ref.)
ATCM2012	2.0 ± 0.2	1.2 ± 0.2	1.2 ± 0.2	0.45 Typ.	0.4 Typ.	0.8	0.9	0.4	0.4
ATCM3216	3.2 ± 0.2	1.6 ± 0.2	1.8 ± 0.2	0.45 Typ.	0.45 Typ.	1.6	1.1	0.4	0.6

Features

- This common mode filter is characterized by its small size.
- Highly effective in noise suppression. High common-mode impedance at noise band and low differential-mode impedance at signal band.
- Due to the low differential-mode impedance with High coupling factor, there is almost no distortion on high speed signal.
- This series is micro-produced by auto machines for its huge productivity and accuracy with all-day CCD inspection.

Applications

- Used for noise suppression in any electronic devices such as personal computer and peripheral equipment (USB), amusement equipment (IEEE 1394), LCD panels (LVDS), etc.

Product Identification

①	②	③	④	⑤	⑥
Product	Dimension	Type	Impedance (Ω)	Package	Special product
ATCM	2012 3216	△△△ Type Code	900 90 181 180	T Taping reel B Bulk	"A~Z"

Specification

ATCM Series Specification							
Part Number	Common-Mode Impedance (Ω)	Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.	Rated Voltage (V)	Withstanding Voltage (V)	Insulation Resistance (MΩ) Min.
ATCM2012-670T	67	100	0.25	400	50	125	10
ATCM2012-900T	90	100	0.35	400	50	125	10
ATCM2012-121T	120	100	0.30	370	50	125	10
ATCM2012-181T	180	100	0.35	330	50	125	10
ATCM2012-201T	200	100	0.35	330	50	125	10
ATCM2012-261T	260	100	0.40	300	50	125	10
ATCM2012-371T	370	100	0.40	280	50	125	10
ATCM3216-900T	90	100	0.30	370	50	125	10
ATCM3216-161T	160	100	0.40	340	50	125	10
ATCM3216-261T	260	100	0.50	310	50	125	10
ATCM3216-601T	600	100	0.80	260	50	125	10
ATCM3216-102T	1000	100	1.00	230	50	125	10
ATCM3216-222T	2200	100	1.20	200	50	125	10

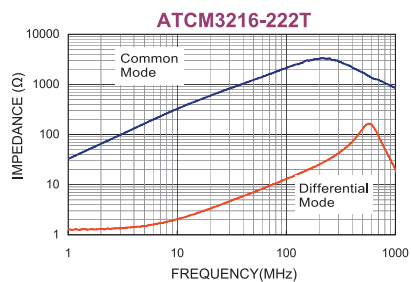
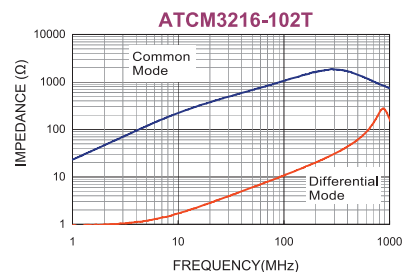
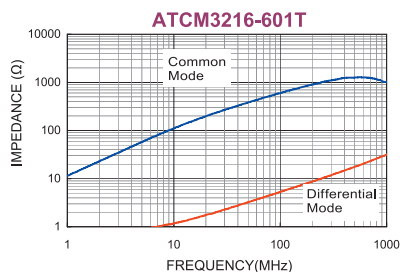
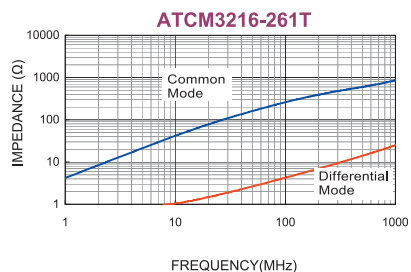
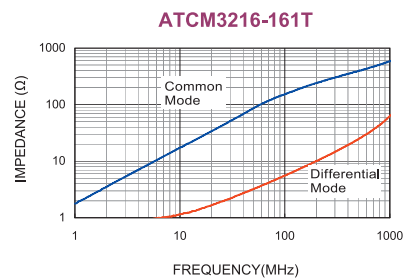
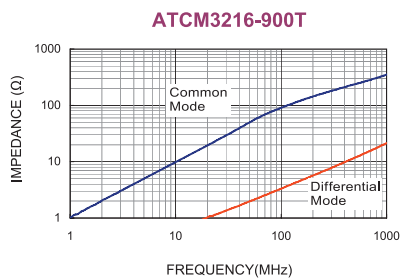
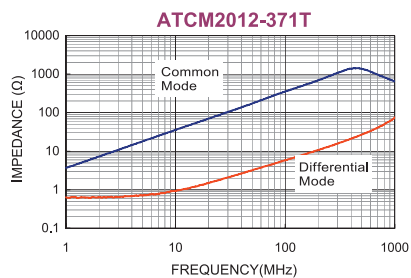
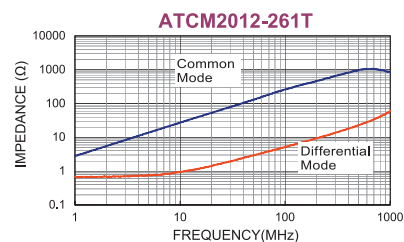
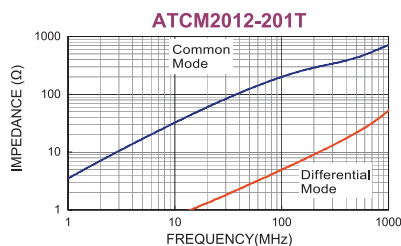
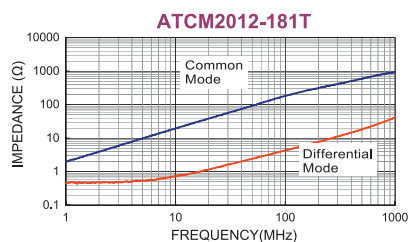
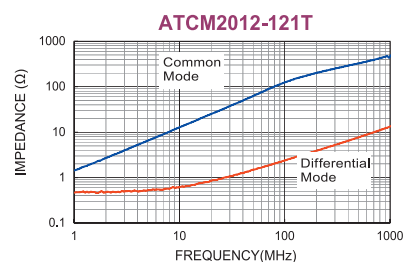
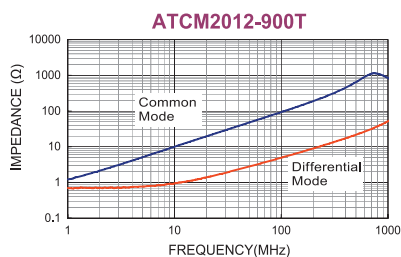
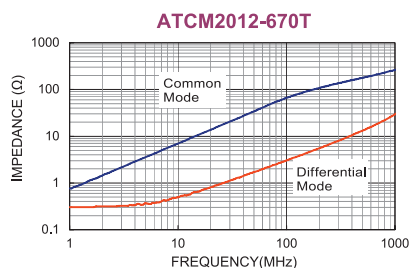
NOTE:

• The operating temperature range is -40°C to +85°C .

• Tolerance : ±25%



Typical Impedance v.s. Frequency Curve

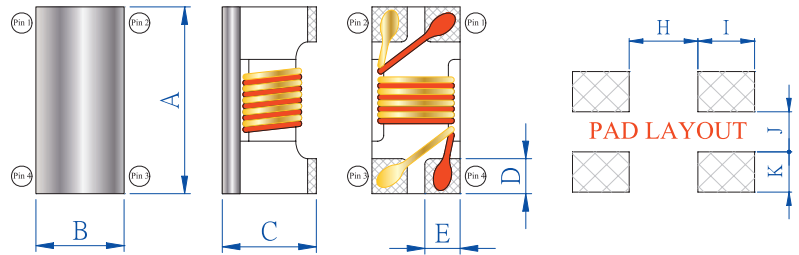




EMI Suppression Filters ATCM_HDMI Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (Ref.)	I (Ref.)	J (Ref.)	K (Ref.)
ATCM2012DB	2.0±0.2	1.2±0.2	1.2±0.2	0.45 Typ.	0.4 Typ.	0.8	0.9	0.4	0.4
ATCM2012HB	2.0±0.2	1.2±0.2	1.2±0.2	0.45 Typ.	0.4 Typ.	0.8	0.9	0.4	0.4

Features

- These are a series of broadband common mode filters developed for high-speed differential signal interface, such as DVI and HDMI.
- The cutoff frequencies in differential mode for ATCM2012DB and ATCM2012HB are 3.5 GHz and 6.0 GHz respectively, so it doesn't interfere with high-speed differential signals.
- The characteristic impedance is approximated to 100Ω conforming to the TDR standard for HDMI.

Applications

- For new HDMI interfaces used in digital video devices:
ATCM2012HB is suited for use on the transmission side (Source) of digital TVs, DVD recorders and liquid crystal projectors.
ATCM2012DB is suited for use on the receiving side (Sink).
- For digital video signal interfaces DVI (UXGA) used in PCs and other devices/High-speed differential signal interfaces for USB 3.0, IEEE 1394 and Serial ATA.

Product Identification

①	②	③	④	⑤	⑥
ATCM	2012△△	△△△-900	T	△	
Product	Dimension	Type	Impedance (Ω)	Package	Special product
ATCM	2012	DB△ HB△ Type Code	900 90 181 180	T Taping reel B Bulk	"A~Z"

Specification

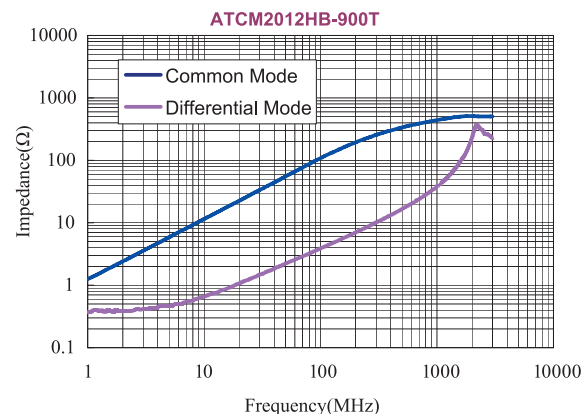
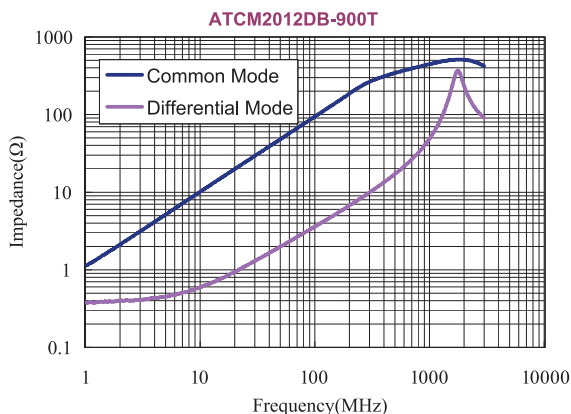
ATCM2012DB Series Specification							
Part Number	Common-Mode Impedance (Ω)	Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.	Rated Voltage (V)	Cut-off Frequency (GHz)	Insulation Resistance (MΩ) Min.
ATCM2012DB-900T	90 ± 25%	100	0.30	300	20	3.5 typ.	10
ATCM2012HB Series Specification							
Part Number	Common-Mode Impedance (Ω)	Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.	Rated Voltage (V)	Cut-off Frequency (GHz)	Insulation Resistance (MΩ) Min.
ATCM2012HB-900T	65 Min. (90 typ.)	100	0.30	300	20	6.0 typ.	10

NOTE:

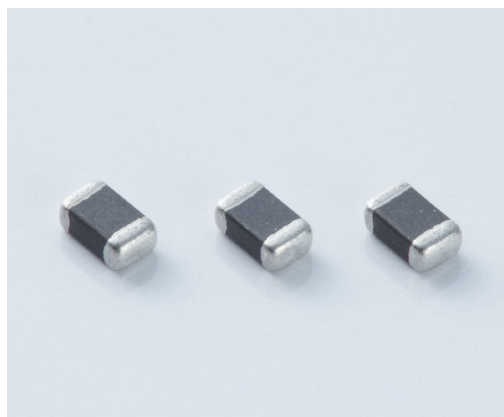
- The operating temperature range is -40°C to +85°C

• Tolerance : ±25%

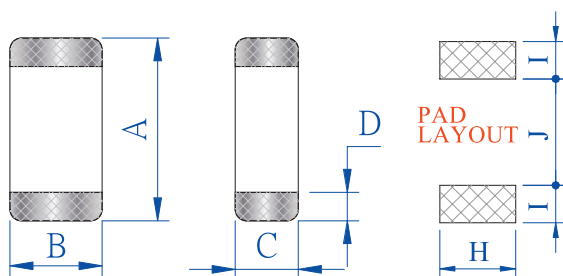
Typical Impedance v.s. Frequency Curve



EMI Suppression Filters AMB Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AMB1005	1.0 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	0.25 ± 0.2	0.50	0.45	0.50
AMB1608	1.6 ± 0.2	0.8 ± 0.2	0.8 ± 0.2	0.3 ± 0.2	0.70	0.70	0.70
AMB2012	2.0 ± 0.2	1.2 ± 0.2	0.9 ± 0.2	0.5 ± 0.3	1.00	0.80	1.00

Features

- Monolithic inorganic material construction.
- Closed magnetic circuit avoids crosstalk.
- Suitable for flow and reflow soldering.
- Excellent solderability and heat resistance.
- High reliability.

Applications

- Personal computers, communication equipment, digital telephone, electronic games machines, CRTs, hard disk drives, cellular phones, PDAs, printers and other computer peripheral products. Suitable for I/O ports, DC power lines and signal lines, and general circuits with unstable ground.

Product Identification

1	2	3	4	5	6	7
AMB	1005 △ △	△ △ △	300	N	T	△
Product	Dimension	Type	Impedance (Ω)	Tolerance	Package	Special product
AMB	1005 1608 2012	Q △ △ Type Code	300 30	N ±25%	T Taping reel B Bulk	"A~Z"

Specification

AMB1005 Series Specification				
Part Number	Impedance (Ω)	Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.
AMB1005Q300 □ T	30	100	0.3	500
AMB1005Q600 □ T	60	100	0.4	200
AMB1005Q121 □ T	120	100	0.5	200
AMB1005Q221 □ T	220	100	0.7	100
AMB1005Q301 □ T	300	100	0.8	100
AMB1005Q601 □ T	600	100	1.0	100

NOTE:

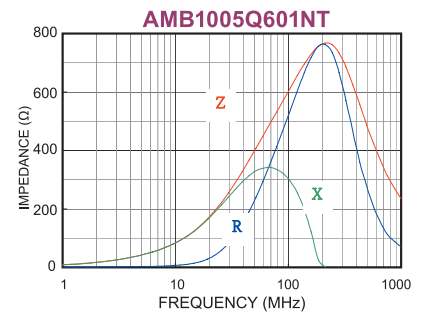
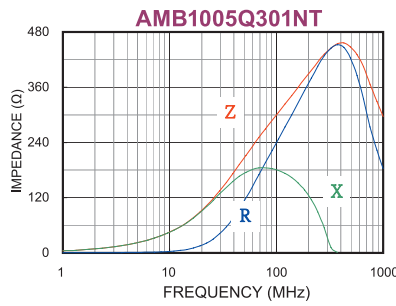
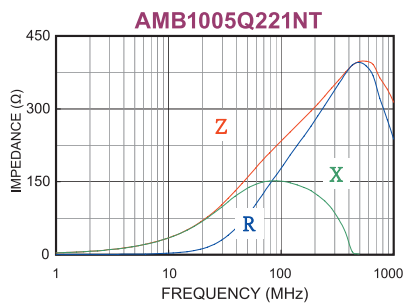
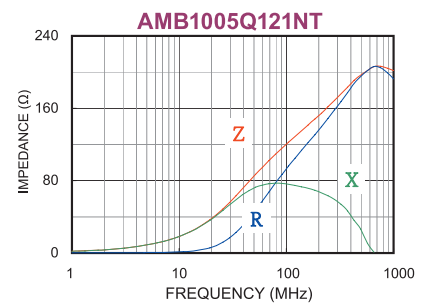
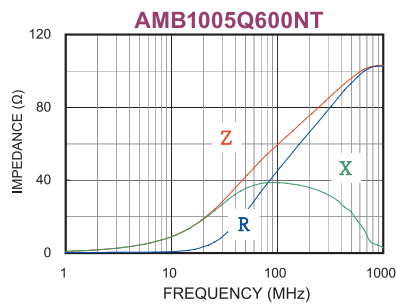
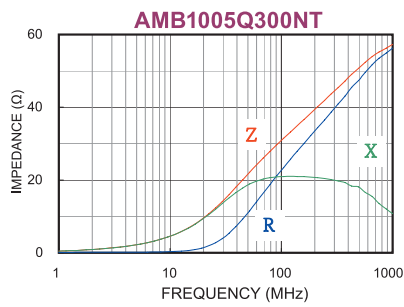
- The operating temperature range is -55°C to +125°C (Including self-temperature rise).

- □ Tolerance N: ±25%



EMI Suppression Filters AMB Series

Typical Impedance v.s. Frequency Curve





Specification

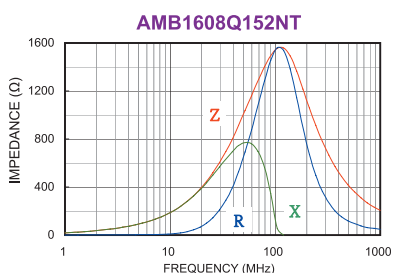
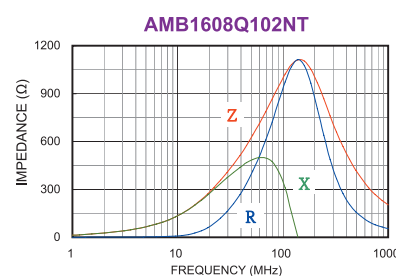
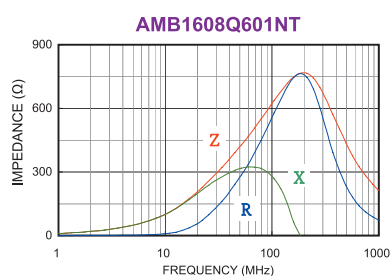
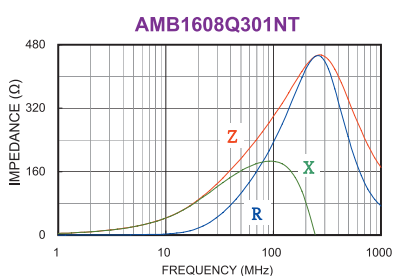
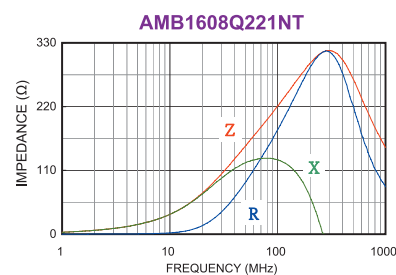
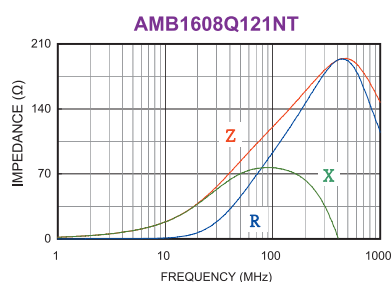
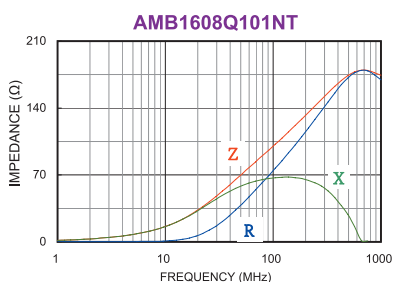
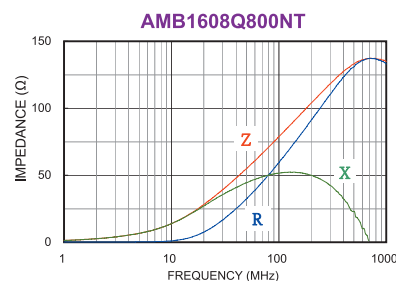
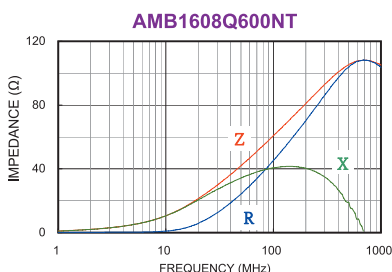
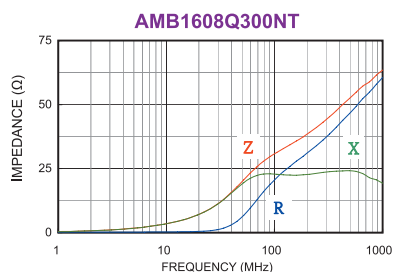
AMB1608 Series Specification				
Part Number	Impedance (Ω)	Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.
AMB1608Q300 $\square$ T	30	100	0.30	400
AMB1608Q600 $\square$ T	60	100	0.30	300
AMB1608Q800 $\square$ T	80	100	0.30	300
AMB1608Q101 $\square$ T	100	100	0.30	200
AMB1608Q121 $\square$ T	120	100	0.30	200
AMB1608Q221 $\square$ T	220	100	0.30	200
AMB1608Q301 $\square$ T	300	100	0.35	150
AMB1608Q601 $\square$ T	600	100	0.45	100
AMB1608Q102 $\square$ T	1000	100	0.60	100
AMB1608Q152 $\square$ T	1500	100	0.70	50

NOTE:

● The operating temperature range is -55°C to $+125^{\circ}\text{C}$ (Including self-temperature rise).

● $\square$ Tolerance N: $\pm 25\%$

Typical Impedance v.s. Frequency Curve





EMI Suppression Filters AMB Series

Specification

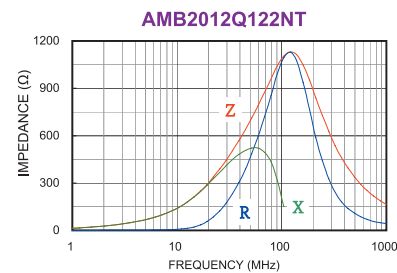
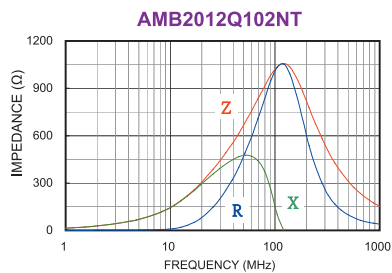
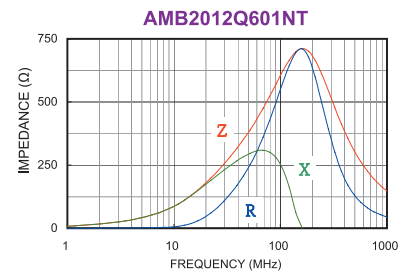
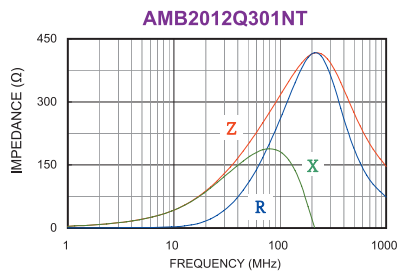
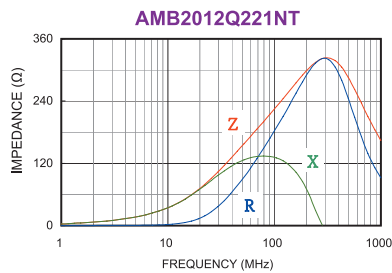
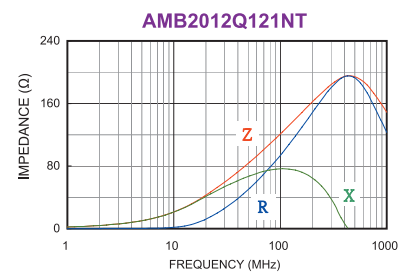
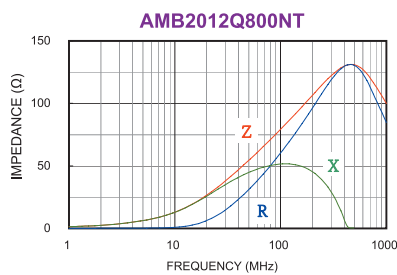
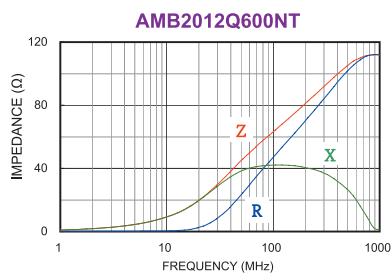
AMB2012 Series Specification				
Part Number	Impedance (Ω)	Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (mA) Max.
AMB2012Q600 $\square$ T	60	100	0.20	300
AMB2012Q800 $\square$ T	80	100	0.20	300
AMB2012Q121 $\square$ T	120	100	0.25	300
AMB2012Q221 $\square$ T	220	100	0.30	200
AMB2012Q301 $\square$ T	300	100	0.30	200
AMB2012Q601 $\square$ T	600	100	0.35	100
AMB2012Q102 $\square$ T	1000	100	0.45	100
AMB2012Q122 $\square$ T	1200	100	0.45	100

NOTE:

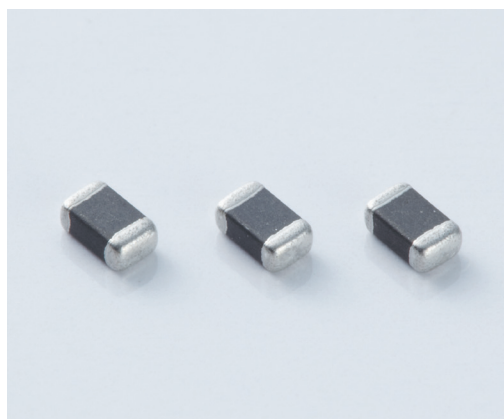
● The operating temperature range is -55°C to +125°C (Including self-temperature rise).

● $\square$ Tolerance N: $\pm 25\%$

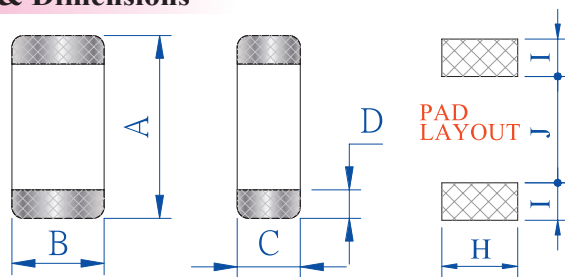
Typical Impedance v.s. Frequency Curve



EMI Suppression Filters AMC Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AMC1005	1.0±0.1	0.5±0.1	0.5±0.1	0.25±0.15	0.6	0.6	0.6
AMC1608	1.6 ± 0.2	0.8 ± 0.2	0.8 ± 0.2	0.3 ± 0.2	0.7	0.7	0.7
AMC2012	2.0 ± 0.2	1.2 ± 0.2	0.9 ± 0.2	0.5 ± 0.3	1.0	0.8	1.0

Features

- Combination of high frequency noise suppression with capability of handling high current. The current rating up to 6 Amps with low DCR.

Applications

- High current DC power lines.
- Circuits where a stable ground is unavailable.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Impedance (Ω)	Tolerance	Package	Special product
AMC	1005 1608 2012	Q△△ Type Code	300 30	N ±25%	T Taping reel B Bulk	"A~Z"

Specification

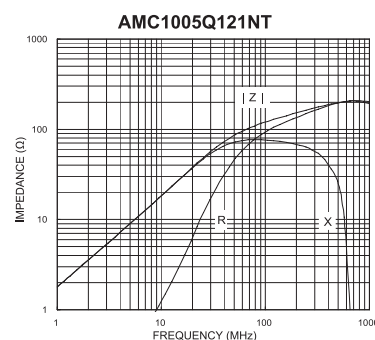
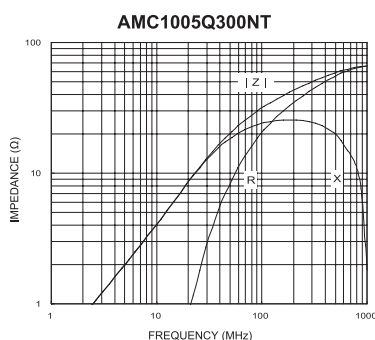
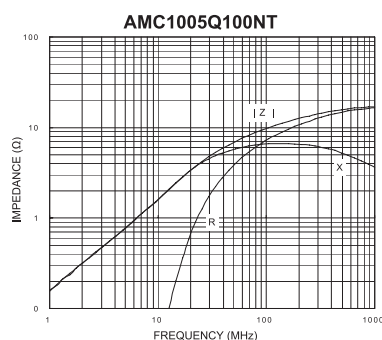
AMC1005 Series Specification				
Part Number	Impedance (Ω)	Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (A) Max.
AMC1005Q100 □ T	10	100	0.05	1.0
AMC1005Q300 □ T	30	100	0.15	2.0
AMC1005Q121 □ T	120	100	0.20	1.2

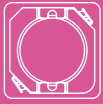
NOTE:

- The operating temperature range is -55°C to +125°C (Including self-temperature rise).

- Tolerance N: ±25%

Typical Impedance v.s. Frequency Curve





EMI Suppression Filters AMC Series

Specification

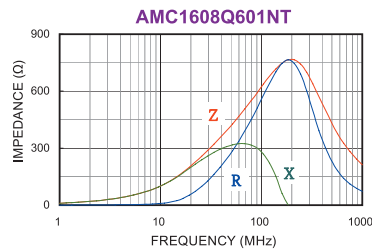
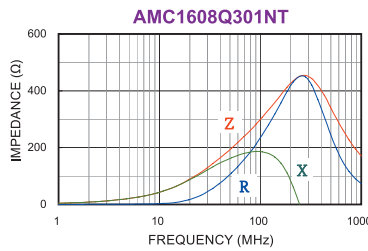
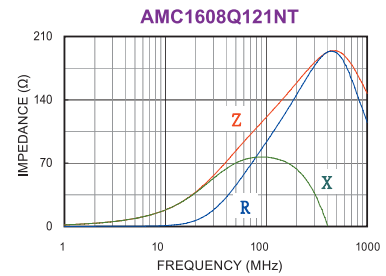
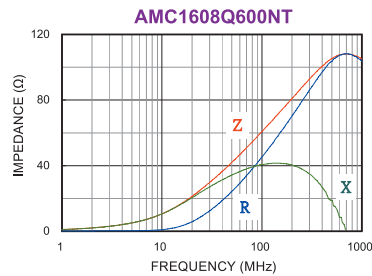
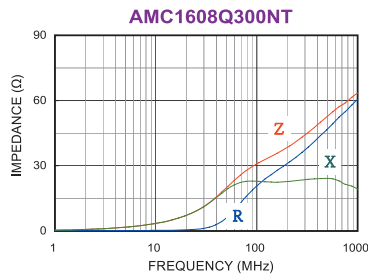
AMC1608 Series Specification				
Part Number	Impedance (Ω)	Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (A) Max.
AMC1608Q300 $\square$ T	30	100	0.03	3.0
AMC1608Q600 $\square$ T	60	100	0.04	3.0
AMC1608Q121 $\square$ T	120	100	0.10	2.5
AMC1608Q301 $\square$ T	300	100	0.15	2.0
AMC1608Q601 $\square$ T	600	100	0.20	1.0

NOTE:

● The operating temperature range is -55°C to $+125^{\circ}\text{C}$ (Including self-temperature rise).

● $\square$ Tolerance N: $\pm 25\%$

Typical Impedance v.s. Frequency Curve



Specification

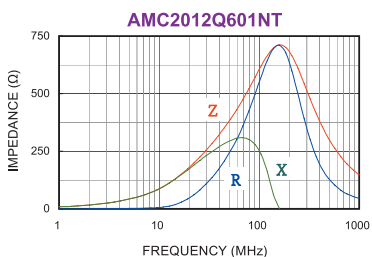
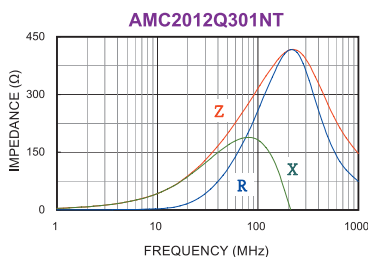
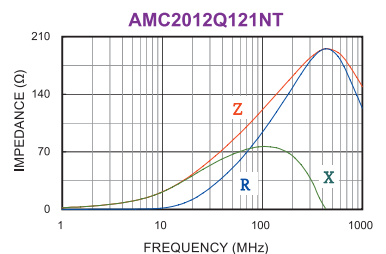
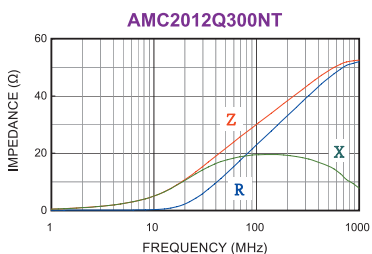
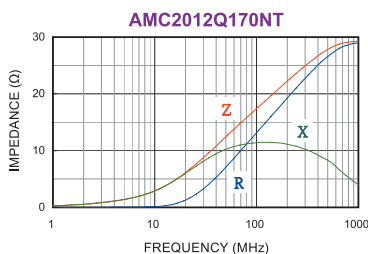
AMC2012 Series Specification				
Part Number	Impedance (Ω)	Test Freq. (MHz)	DCR (Ω) Max.	Rated Current (A) Max.
AMC2012Q170 $\square$ T	17	100	0.025	3.0
AMC2012Q300 $\square$ T	30	100	0.025	3.0
AMC2012Q121 $\square$ T	120	100	0.060	3.0
AMC2012Q301 $\square$ T	300	100	0.100	2.0
AMC2012Q601 $\square$ T	600	100	0.150	2.0

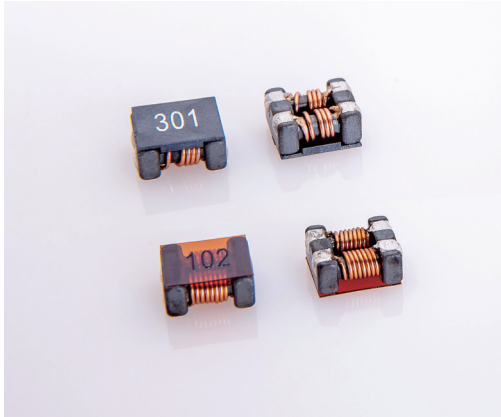
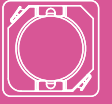
NOTE:

● The operating temperature range is -55°C to $+125^{\circ}\text{C}$ (Including self-temperature rise).

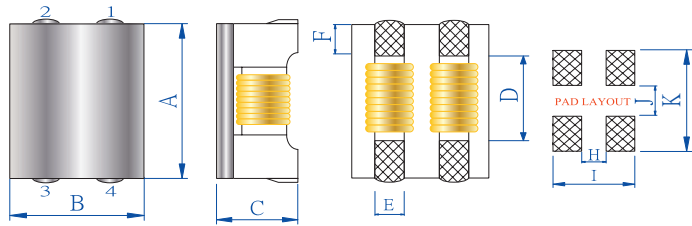
● $\square$ Tolerance N: $\pm 25\%$

Typical Impedance v.s. Frequency Curve

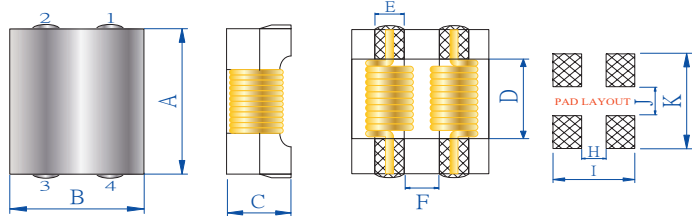




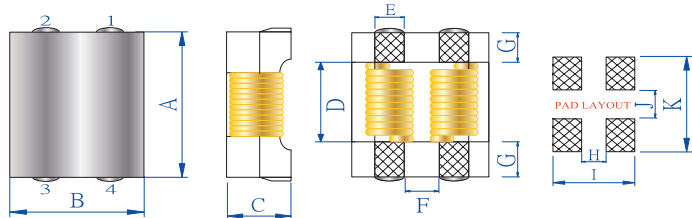
Shape & Dimensions



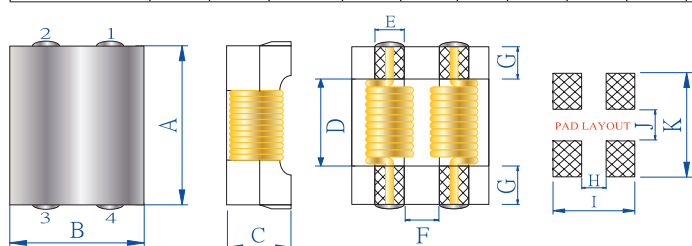
TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (Ref.)	I (Ref.)	J (Ref.)	K (Ref.)
ALCM070640F	7.0±0.5	6.0±0.5	3.8 MAX.	3.5 Typ.	1.5 Typ.	1.7 Typ.	1.5	5.0	3.0	8.0
ALCM090750F	9.0±0.5	7.0±0.5	4.8 MAX.	5.6 Typ.	1.5 Typ.	1.7 Typ.	1.5	5.5	5.0	10.5
ALCM131160F	12.0±0.5	10.8±0.5	6.4 MAX.	7.0 Typ.	2.7 Typ.	2.5 Typ.	2.0	8.5	6.5	12.5
ALCM151360F	15.0±0.5	13.0±0.5	6.0 MAX.	9.0 Typ.	2.7 Typ.	3.0 Typ.	3.3	9.5	8.0	16.0
ALCM070640M	7.0±0.5	6.0±0.5	3.8 MAX.	3.5 Typ.	1.5 Typ.	1.7 Typ.	1.5	5.0	3.0	8.0
ALCM090750M	9.0±0.5	7.0±0.5	4.8 MAX.	5.6 Typ.	1.5 Typ.	1.7 Typ.	1.5	5.5	5.0	10.5
ALCM131160M	12.0±0.5	10.8±0.5	6.4 MAX.	7.0 Typ.	2.7 Typ.	2.5 Typ.	2.0	8.5	6.5	12.5
ALCM151360M	15.0±0.5	13.0±0.5	6.0 MAX.	9.0 Typ.	2.7 Typ.	3.0 Typ.	3.3	9.5	8.0	16.0



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (Ref.)	I (Ref.)	J (Ref.)	K (Ref.)
ALCM090770AM	9.0±0.5	7.0±0.5	6.7 MAX.	5.7 Typ.	2.5±0.2	2.0±0.2	1.5	5.5	5.0	10.5
ALCM121190AM	12.0±0.5	10.8±0.5	8.7 MAX.	7.0 Typ.	2.7 Typ.	2.5 Typ.	2.0	8.5	6.5	12.5



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (Ref.)	I (Ref.)	J (Ref.)	K (Ref.)
ALCM070640FC	7.0±0.5	6.0±0.5	4.2 +0.2/-0.3	3.5 Typ.	1.5 Typ.	1.7 Typ.	5.0 Typ.	1.5	5.0	3.0	8.0



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (Ref.)	I (Ref.)	J (Ref.)	K (Ref.)
ALCM050520M	4.7±0.5	4.5±0.5	2.0 Max.	2.7 Typ.	0.8 Typ.	1.25 Typ.	1.0 Typ.	1.0	3.0	2.0	6.0

Features

- Chip common mode filter for large current applications.
For each series, there is excellent common mode impedance and noise suppression in a compact case.
- Compatible with high-density portable devices, which are always being made smaller and lighter, because the height has been reduced.

Applications

- Power line noise countermeasure for various electronic equipment.
- Noise countermeasure for adapter lines and battery lines or larger electronic equipment such as note book PCs and word processors.

Product Identification

①	②	③	④	⑤	⑥
Product	Dimension	Type	Impedance (Ω)	Package	Special product
ALCM	050520	△△△ Type Code	101 100 501 500	T Taping reel B Bulk	"A~Z"
	070640				
	090750/090770				
	121190				
	131160				
	151360				



EMI Suppression Filters ALCM Series

Specification

ALCM070640F Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR ($m\Omega$) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (M Ω) Min.
	Min.	Typ.				
ALCM070640F-400T	40	70	5.0	15.0	125	10
ALCM070640F-101T	100	140	10.0	9.0	125	10
ALCM070640F-301T	225	300	10.0	5.0	125	10
ALCM070640F-501T	275	450	10.0	5.0	125	10
ALCM070640F-601T	500	700	15.0	4.0	125	10
ALCM070640F-701T	500	700	15.0	4.0	125	10
ALCM070640F-102T	800	1020	17.0	3.0	125	10
ALCM070640F-132T	910	1300	21.0	2.5	125	10
ALCM070640F-272T	2000	2700	63.0	1.0	125	10
ALCM070640F-302T	2500	3000	75.0	0.9	125	10
ALCM090750F Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR ($m\Omega$) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (M Ω) Min.
	Min.	Typ.				
ALCM090750F-301T	225	300	6.0	6.0	80	10
ALCM090750F-501T	450	600	8.0	5.5	80	10
ALCM090750F-701T	500	700	10.0	5.0	80	10
ALCM090750F-102T	750	1000	13.0	4.0	80	10
ALCM090750F-222T	1700	2200	50.0	3.0	80	10
ALCM090750F-272T	2000	2700	80.0	2.0	80	10
ALCM131160F Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR ($m\Omega$) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (M Ω) Min.
	Min.	Typ.				
ALCM131160F-800T	80	230	2.0	10.0	125	10
ALCM131160F-701T	500	700	6.0	8.0	125	10
ALCM131160F-801T	600	800	8.0	8.0	125	10
ALCM131160F-102T	750	1000	14.0	6.0	125	10
ALCM131160F-222T	2200	2500	35.0	1.8	125	10
ALCM131160F-272T	2300	2700	50.0	1.5	125	10
ALCM151360F Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR ($m\Omega$) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (M Ω) Min.
	Min.	Typ.				
ALCM151360F-301T	250	300	5.0	13.0	80	10
ALCM151360F-551T	450	550	6.0	10.0	80	10
ALCM151360F-701T	500	700	7.0	10.0	80	10
ALCM050520M Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR ($m\Omega$) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (M Ω) Min.
	Min.	Typ.				
ALCM050520M-900T	60	90	35	2.0	50	10
ALCM050520M-151T	90	150	40	1.9	50	10
ALCM050520M-231T	180	230	45	1.8	50	10
ALCM050520M-301T	200	300	45	1.7	50	10
ALCM050520M-401T	300	420	50	1.5	50	10
ALCM050520M-701T	500	700	59	1.4	50	10
ALCM050520M-901T	650	900	68	1.3	50	10
ALCM050520M-102T	800	1000	68	1.3	50	10
ALCM050520M-122T	1000	1200	74	1.2	50	10
ALCM050520M-142T	1200	1400	81	1.2	50	10
ALCM070640M Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR ($m\Omega$) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (M Ω) Min.
	Min.	Typ.				
ALCM070640M-400T	40	70	5.0	15.0	125	10
ALCM070640M-101T	100	140	10.0	9.0	125	10
ALCM070640M-301T	225	300	10.0	5.0	125	10
ALCM070640M-501T	275	450	10.0	5.0	125	10
ALCM070640M-601T	500	700	15.0	4.0	125	10
ALCM070640M-701T	500	700	15.0	4.0	125	10
ALCM070640M-102T	800	1020	17.0	3.0	125	10
ALCM070640M-132T	910	1300	21.0	2.5	125	10
ALCM070640M-272T	2000	2700	63.0	1.0	125	10
ALCM070640M-302T	2500	3000	75.0	0.9	125	10

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).



Specification

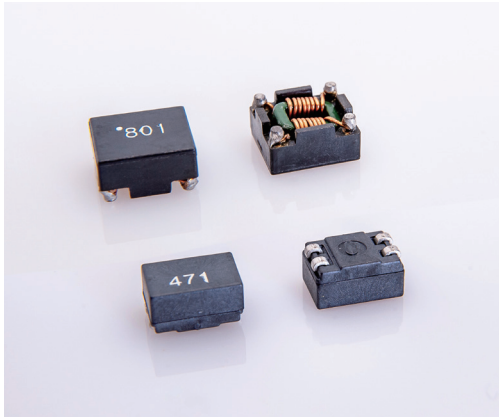
ALCM090750M Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR (mΩ) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	Min.	Typ.				
ALCM090750M-301T	225	300	6.0	6.0	80	10
ALCM090750M-501T	450	600	8.0	5.5	80	10
ALCM090750M-701T	500	700	10.0	5.0	80	10
ALCM090750M-102T	750	1000	13.0	4.0	80	10
ALCM090750M-222T	1700	2200	50.0	3.0	80	10
ALCM090750M-272T	2000	2700	80.0	2.0	80	10
ALCM131160M Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR (mΩ) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	Min.	Typ.				
ALCM131160M-800T	80	230	2.0	10.0	125	10
ALCM131160M-701T	500	700	6.0	8.0	125	10
ALCM131160M-801T	600	800	8.0	8.0	125	10
ALCM131160M-102T	750	1000	14.0	6.0	125	10
ALCM131160M-222T	2200	2500	35.0	1.8	125	10
ALCM131160M-272T	2300	2700	50.0	1.5	125	10
ALCM151360M Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR (mΩ) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	Min.	Typ.				
ALCM151360M-301T	250	300	5.0	13.0	80	10
ALCM151360M-551T	450	550	6.0	10.0	80	10
ALCM151360M-701T	500	700	7.0	10.0	80	10
ALCM090770AM Series Specification						
Part Number	Impedance @2.5MHz(Ω)		DCR (mΩ) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	Min.	Typ.				
ALM090770AM-152T	600	1500	50	3.0	50	10
ALM090770AM-322T	2200	3200	125	2.0	50	10
ALCM121190AM Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR (mΩ) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	Min.	Typ.				
ALM121190AM-172T	1100	1700	26.0	5.5	125	10
ALCM070640FC Series Specification						
Part Number	Impedance @100MHz(Ω)		DCR (mΩ) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	Min.	Typ.				
ALCM070640FC-400T	40	70	5.0	15.0	125	10
ALCM070640FC-101T	100	140	10.0	9.0	125	10
ALCM070640FC-301T	225	300	10.0	5.0	125	10
ALCM070640FC-501T	275	450	10.0	5.0	125	10
ALCM070640FC-601T	500	700	15.0	4.0	125	10
ALCM070640FC-701T	500	700	15.0	4.0	125	10
ALCM070640FC-102T	800	1020	17.0	3.0	125	10
ALCM070640FC-132T	910	1300	21.0	2.5	125	10
ALCM070640FC-272T	2000	2700	63.0	1.0	125	10
ALCM070640FC-302T	2500	3000	75.0	0.9	125	10

NOTE:

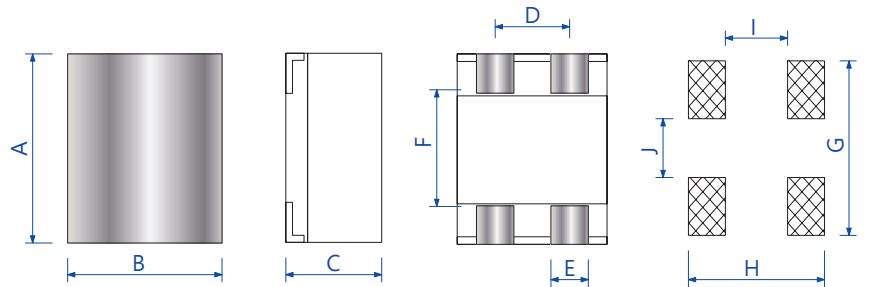
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).



EMI Suppression Filters ARCM Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (Ref.)	H (Ref.)	I (Ref.)	J (Ref.)
ARCM090650L	9.2±0.3	6.0±0.3	5.0±0.3	2.54±0.2	1.0±0.1	5.7 Ref.	9.5	3.7	1.74	5.5

Features

- Low profile, only 1.65 mm.
- High current up to 300 mA.
- Rated voltage: 80 VDC (42 VAC).
- Flammability corresponding to UL94V-0.
- Climatic category 40/105/21.

Applications

- USB.
- CAN.
- FireWire.
- Signal and sensor lines.
- Power supply system.
- Date lines.
- Suppression of common mode noise.

Product Identification

①	②	③	④	⑤	⑥	⑦
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ARCM	090650	L△△ Type Code	100 10 510 51	Z +50%/-30%	T Taping reel B Bulk	"A~Z"

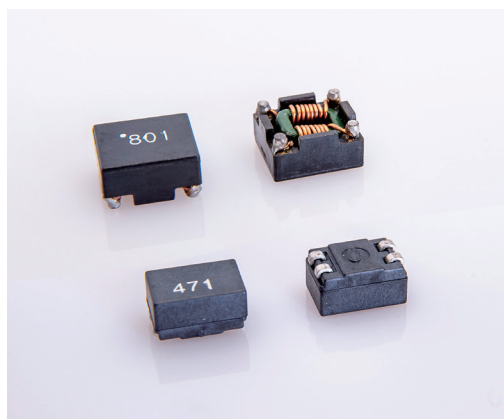
Specification

ARCM090650L Series Specification								
Part Number	Inductance (uH)	Test Freq.	DCR (Ω) Max.	Rated Current (A) Max.	Impedance (Ω) Min.	Freq. Range (MHz)	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
ARCM090650L-100ZT	10 +50%-30%	1KHz/0.1V	0.08	1.6	300	20~200	50	10
ARCM090650L-250ZT	25 +50%-30%	1KHz/0.1V	0.16	1.0	600	5~100	50	10
ARCM090650L-400ZT	40 +50%-30%	1KHz/0.1V	0.25	0.9	800	5~100	50	10
ARCM090650L-510ZT	51 +50%-30%	1KHz/0.1V	0.32	0.8	1000	5~50	50	10
ARCM090650L-251ZT	250 ±50%	100KHz/5mV	0.13	1.2	600	5~50	50	10
ARCM090650L-471ZT	470 ±50%	100KHz/5mV	0.14	1.1	800	1~50	50	10
ARCM090650L-501ZT	500 ±50%	100KHz/5mV	0.15	1.0	900	1~40	50	10
ARCM090650L-102ZT	1000 ±50%	100KHz/5mV	0.31	0.8	1000	1~30	50	10
ARCM090650L-202ZT	2000 ±50%	100KHz/5mV	0.42	0.6	3000	1~10	50	10
ARCM090650L-472ZT	4700 ±50%	100KHz/5mV	0.90	0.4	3000	0.5~5	50	10
ARCM090650L-652ZT	6500 ±50%	100KHz/5mV	1.05	0.3	4000	0.3~2	50	10

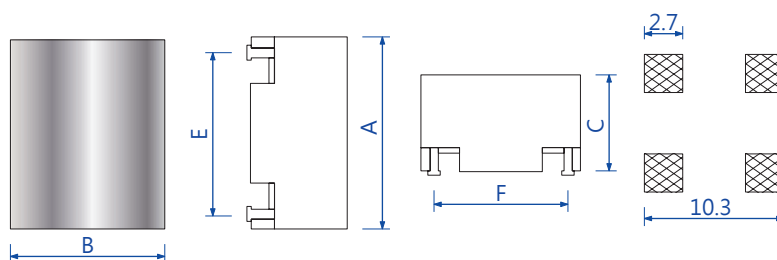
NOTE:

- The operating temperature range is -20°C to +80°C (Including self-temperature rise).

EMI Suppression Filters ARCM Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)
ARCM100850HL	9.5 ± 0.3	8.3 ± 0.3	5.3 Max.	7.5 Typ.	6.3 Typ.

Features

- Low profile, only 1.65 mm.
- High current up to 300 mA.
- Rated voltage: 80 VDC (42 VAC).
- Flammability corresponding to UL94V-0.
- Climatic category 40/105/21.

Applications

- USB.
- CAN.
- FireWire.
- Signal and sensor lines.
- Power supply system.
- Date lines.
- Suppression of common mode noise.

Product Identification

①	②	③	④	⑤
Product	Dimension	Type	Impedance (Ω)	Package
ARCM	100850	HL△ Type Code	501 500 801 800	T Taping reel B Bulk

Specification

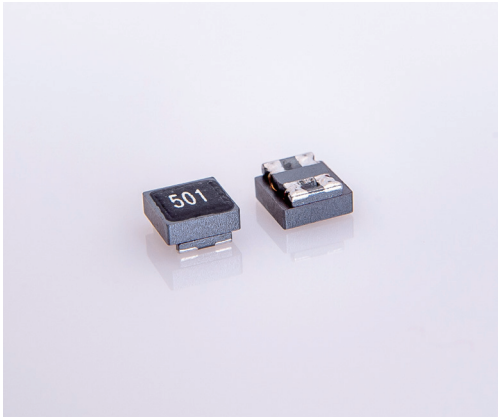
ARCM100850HL Series Specification					
Part Number	Impedance @100MHz (Ω)	Inductance (uH) @100KHz/0.1V	DCR (mΩ) Max.	Rated Current (A) Max.	Insulation Test Voltage (AC) Max.
ARCM100850HL-501T	500 (Typ)	5 (Typ)	5.5	5.0	500V
ARCM100850HL-801T	800 (Typ)	9 (Typ)	11.0	3.5	500V
ARCM100850HL-102T	1000 (Typ)	11 (Typ)	30.0	2.5	500V
ARCM100850HL-222T	2200 (Typ)	30 (Typ)	60.0	1.4	500V

NOTE:

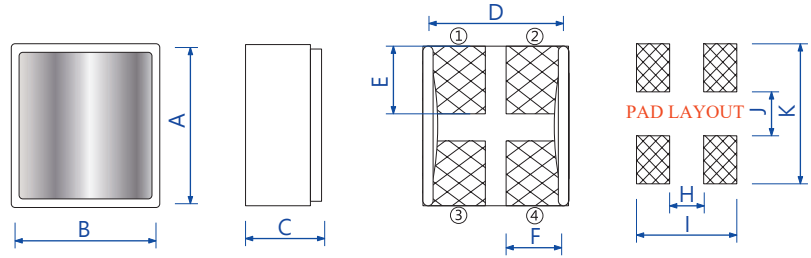
- The operating temperature range is -40°C to +125°C (Including self-temperature rise).



EMI Suppression Filters AXCM Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (Ref.)	I (Ref.)	J (Ref.)	K (Ref.)
AXCM050530	5.0 ± 0.2	4.8 ± 0.2	2.5 MAX.	3.5 Ref.	1.9 Ref.	1.35 Ref.	0.8	4.0	1.0	5.6
AXCM050550	5.0 ± 0.2	4.8 ± 0.2	4.5 MAX.	3.5 Ref.	1.9 Ref.	1.35 Ref.	0.8	4.0	1.0	5.6

Features

- Small size and tight dimensional tolerance.
- High common mode impedance up to 90 ohm(at 100 MHz) is available.
- DLM11S series enables noise suppression for differential signal line without distortion in high-speed signal transmission due to its line impedance matching.
- High Cut-off Frequency.

Applications

- For general.

Product Identification

Product	Dimension	Type	Impedance (Ω)	Package	Special product
AXCM	050530/050550	△△△ Type Code	101 100 501 500	T Taping reel B Bulk	"A~Z"

Specification

AXCM050530 Series Specification

Part Number	Impedance (Ω)	Test Freq. (MHz)	DCR (mΩ) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
AXCM050530-101T	100 (Typ)	100	13	6.0	50	10
AXCM050530-251T	250 (Typ)	100	20	5.0	50	10
AXCM050530-501T	500 (Typ)	100	27	4.0	50	10
AXCM050530-102T	1000 (Typ)	100	34	2.0	50	10
AXCM050530-142T	1400 (Typ)	100	56	1.5	50	10
AXCM050530-152T	1500 (Typ)	100	56	1.5	50	10

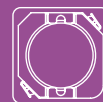
AXCM050550 Series Specification

Part Number	Impedance @100MHz (Ω)	Inductance (uH) @100KHz/0.1V	DCR (Ω) Max.	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
AXCM050550-191T	190 (Typ)	0.6 (Typ)	0.02	5.0	50	10
AXCM050550-351T	350 (Typ)	1.1 (Typ)	0.04	2.0	50	10
AXCM050550-102T	1000 (Typ)	3.7 (Typ)	0.06	1.5	50	10
AXCM050550-152T	1500 (Typ)	5.6 (Typ)	0.10	1.0	50	10
AXCM050550-302T	3000 (Typ)	8.0 (Typ)	0.20	0.5	50	10
AXCM050550-402T	4000 (Typ)	8.0 (Typ)	0.30	0.2	50	10

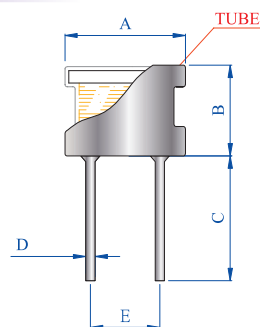
NOTE:

- The operating temperature range is -40°C to +85°C (Including self-temperature rise).

DIP Power Inductors ADR Series



Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
ADR0406	5.0+1.0	7.0+1.0	15±2.0	0.5±0.05	1.75±0.5
ADR0608	8.5 MAX.	11.0 MAX.	10 MIN.	0.6±0.05	3.0±0.5
ADR0810	9.0+1.0	11.0+1.0	15±2.0	0.65±0.05	5.0±1.0
ADR0912	10.0+1.0	13.0+1.0	15±2.0	0.65±0.05	5.0±0.5

Features

- High performance ferrite cores that are designed to RC TYPE “Small Choke Coil” which can meet to the inductance value of 2.2 uH.
- Small size and radial type.
- For high Q and Self-Resonant frequency.
- Designed by special lead wire to prevent open circuit failure.

Applications

- For switching regulators, switching power supplies, typewriters, amplifiers, monitors, TVs, UPSs, LED lighting, etc.

Product Identification

1	2	3	4	5	6	7
ADR	0810	△△△	- 100	K	B	△
Product	Dimension	Type	Inductance (uH)	Tolerance	Package	Special product
ADR	0406	△△△ Type Code	2R2 2.2	K ±10%	T Taping reel	"A~Z"
	0608		100 10	M ±20%	B Bulk	
	0810		220 22			
	0912					

Specification

ADR0406 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ADR0406-2R2 □ B	2.2	M	1.0	28	2.80
ADR0406-3R3 □ B	3.3	M	1.0	30	2.50
ADR0406-4R7 □ B	4.7	M	1.0	65	2.00
ADR0406-6R8 □ B	6.8	K,M	1.0	75	1.60
ADR0406-100 □ B	10	K,M	1.0	110	1.40
ADR0406-150 □ B	15	K,M	1.0	120	1.10
ADR0406-220 □ B	22	K,M	1.0	150	0.80
ADR0406-330 □ B	33	K,M	1.0	300	1.10
ADR0406-470 □ B	47	K,M	1.0	620	0.55
ADR0406-680 □ B	68	K,M	1.0	750	0.48
ADR0406-101 □ B	100	K,M	1.0	820	0.38
ADR0406-121 □ B	120	K,M	1.0	710	0.34
ADR0406-151 □ B	150	K,M	1.0	980	0.33
ADR0406-221 □ BB	220	K,M	1.0	1600	0.34

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

- □ Tolerance K: ±10% • M: ±20%



DIP Power Inductors ADR Series

Specification

ADR0608 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ADR0608-2R2 □ B	2.2	M	1.0	23	5.50
ADR0608-3R3 □ B	3.3	M	1.0	31	4.30
ADR0608-4R7 □ B	4.7	M	100	30	2.20
ADR0608-6R8 □ B	6.8	K,M	1.0	30	2.00
ADR0608-100 □ B	10	K,M	1.0	109	2.50
ADR0608-150 □ B	15	K,M	1.0	54	2.50
ADR0608-220 □ B	22	K,M	1.0	90	1.80
ADR0608-330 □ B	33	K,M	1.0	178	1.65
ADR0608-470 □ B	47	K,M	1.0	220	1.20
ADR0608-680 □ B	68	K,M	1.0	260	1.00
ADR0608-101 □ B	100	K,M	1.0	480	0.60
ADR0608-121 □ B	120	K,M	1.0	350	0.70
ADR0608-151 □ B	150	K,M	1.0	480	0.50
ADR0608-221 □ B	220	K,M	1.0	1100	0.80
ADR0608-331 □ B	330	K,M	1.0	1700	0.60
ADR0608-471 □ B	470	K,M	1.0	1500	0.40
ADR0608-561 □ B	560	K,M	1.0	2620	0.40
ADR0608-681 □ B	680	K,M	1.0	3400	0.40
ADR0608-821 □ B	820	K,M	1.0	4300	0.40
ADR0608-102 □ B	1000	K,M	1.0	3200	0.20

ADR0810 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ADR0810-2R2 □ B	2.2	M	1.0	10	4.50
ADR0810-3R3 □ B	3.3	M	1.0	20	3.60
ADR0810-4R7 □ B	4.7	M	1.0	35	3.50
ADR0810-6R8 □ B	6.8	K,M	1.0	38	6.00
ADR0810-100 □ BA	10	K,M	1.0	30	4.40
ADR0810-150 □ BD	15	K,M	1.0	42	3.60
ADR0810-220 □ BA	22	K,M	1.0	60	3.50
ADR0810-330 □ B	33	K,M	1.0	100	2.50
ADR0810-470 □ B	47	K,M	1.0	150	2.00
ADR0810-680 □ B	68	K,M	1.0	130	2.00
ADR0810-101 □ B	100	K,M	1.0	350	1.20
ADR0810-121 □ B	120	K,M	1.0	280	1.60
ADR0810-151 □ B	150	K,M	1.0	280	1.10
ADR0810-221 □ B	220	K,M	1.0	760	1.00
ADR0810-331 □ B	330	K,M	1.0	800	0.80
ADR0810-471 □ B	470	K,M	1.0	950	0.70
ADR0810-561 □ B	560	K,M	1.0	980	0.75
ADR0810-681 □ B	680	K,M	1.0	1250	0.70
ADR0810-821 □ B	820	K,M	1.0	1500	0.65
ADR0810-102 □ B	1000	K,M	1.0	2000	0.30
ADR0810-122 □ B	1200	K,M	1.0	3800	0.42
ADR0810-152 □ B	1500	K,M	1.0	4500	0.40
ADR0810-182 □ B	1800	K,M	1.0	4800	0.38
ADR0810-222 □ B	2200	K,M	1.0	5800	0.43

ADR0912 Series Specification					
Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
ADR0912-100 □ B	10	K,M	1.0	28	6.50
ADR0912-150 □ B	15	K,M	1.0	30	4.20
ADR0912-220 □ B	22	K,M	1.0	40	3.20
ADR0912-330 □ B	33	K,M	1.0	60	2.30
ADR0912-470 □ B	47	K,M	1.0	100	2.10
ADR0912-680 □ B	68	K,M	1.0	110	1.90
ADR0912-101 □ B	100	K,M	1.0	150	1.50
ADR0912-121 □ B	120	K,M	1.0	180	1.40
ADR0912-151 □ B	150	K,M	1.0	200	1.30
ADR0912-221 □ BA	220	K,M	1.0	600	1.70
ADR0912-331 □ B	330	K,M	1.0	800	0.80
ADR0912-471 □ B	470	K,M	1.0	1200	0.70
ADR0912-561 □ B	560	K,M	1.0	1080	0.65
ADR0912-681 □ B	680	K,M	1.0	1220	0.55
ADR0912-821 □ B	820	K,M	1.0	1100	0.40
ADR0912-102 □ B	1000	K,M	1.0	1200	0.50
ADR0912-122 □ B	1200	K,M	1.0	1500	0.46
ADR0912-152 □ B	1500	K,M	1.0	2000	0.43
ADR0912-182 □ B	1800	K,M	1.0	2300	0.34
ADR0912-222 □ B	2200	K,M	1.0	3200	0.33

NOTE:

- The operating temperature range is -40°C to +125°C (Including self-temperature rise).
- Isat: For Inductance drop 10% from its value without current.

● □ Tolerance K: ±10% • M: ±20%



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