

EMI SUPPRESSION FILTER / ALCM Series

● Features

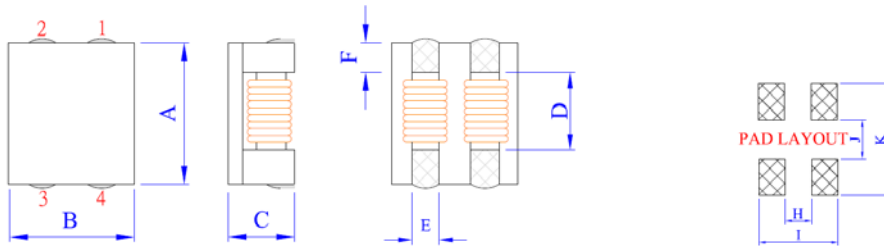
1. Chip common mode filter for large current applications.
For each series, there is excellent common mode impedance and noise suppression in a compact case.
2. Compatible with high-density portable devices, which are always being made smaller and lighter, because the height has been reduced.



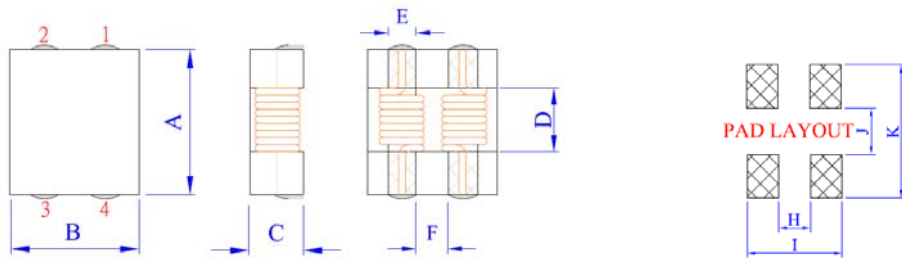
● Applications

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

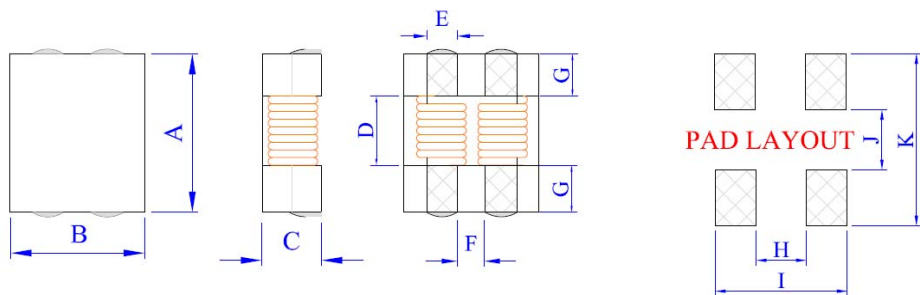
● Shape & Dimensions



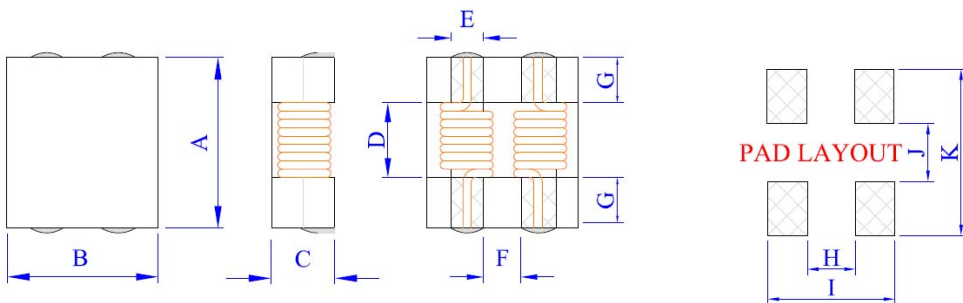
TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (Ref.)	I (Ref.)	J (Ref.)	K (Ref.)
ALCM070640F	7.0±0.5	6.0±0.5	3.8 MAX.	3.5 Typ.	1.5 Typ.	1.7 Typ.	1.5	5.0	3.0	8.0
ALCM090750F	9.0±0.5	7.0±0.5	4.8 MAX.	5.6 Typ.	1.5 Typ.	1.7 Typ.	1.5	5.5	5.0	10.5
ALCM131160F	12.0±0.5	10.8±0.5	6.4 MAX.	7.0 Typ.	2.7 Typ.	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.	1.7Typ.	5.0Typ.	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.	1.25Typ.	1.0Typ.	1.0	3.0	2.0	6.0

■ PRODUCT IDENTIFICATION

A L C M		0 5 0 5 2 0		△ △ △ — 1 0 1		T		△					
①		②		③		④		⑤		⑥			
Product		Dimension				Type		Impedance(Ω)		Package		Special product	
ALCM		050520/070640/090750/090770 131160/121190/151360				△△△: Type Code		101 100 501 500		T Taping reel B Bulk		"A~"Z"	

◆ ALCM070640F Series Specification :

Part Number	Impedance		DCR Max. (mΩ)	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	@100MHz (Ω) 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

NOTE :

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

◆ ALCM090750F Series Specification :

Part Number	Impedance		DCR Max. (mΩ)	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	@100MHz (Ω) 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

NOTE :

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

◆ ALCM131160F Series Specification :

Part Number	Impedance		DCR	Rated	Rated	Insulation
	@100MHz (Ω)		Max.	Current	Voltage	Resistance
	Min	Typ	(mΩ)	(A) Max.	(V) Max.	(MΩ) Min.
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

NOTE :

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

◆ ALCM151360F Series Specification :

Part Number	Impedance		DCR	Rated	Rated	Insulation
	@100MHz (Ω)		Max.	Current	Voltage	Resistance
	Min	Typ	(mΩ)	(A) Max.	(V) Max.	(MΩ) Min.
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

NOTE :

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

◆ ALCM050520M Series Specification :

Part Number	Common-Mode		DCR	Rated	Rated	Insulation
	Impedance		Max.	Current	Voltage	Resistance
	@100MHz (Ω)		(mΩ)	(A) Max.	(V) Max.	(MΩ) Min.
ALCM050520M-900T	60 Min	90 Typ	35	2.0	50	10
ALCM050520M-151T	90 Min	150 Typ	40	1.9	50	10
ALCM050520M-231T	180 Min	230 Typ	45	1.8	50	10
ALCM050520M-301T	200 Min	300 Typ	45	1.7	50	10
ALCM050520M-401T	300 Min	420 Typ	50	1.5	50	10
ALCM050520M-701T	500 Min	700 Typ	59	1.4	50	10
ALCM050520M-901T	650 Min	900 Typ	68	1.3	50	10
ALCM050520M-102T	800 Min	1000 Typ	68	1.3	50	10
ALCM050520M-122T	1000 Min	1200 Typ	74	1.2	50	10
ALCM050520M-142T	1200 Min	1400 Typ	81	1.2	50	10

NOTE :

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

◆ ALCM070640M Series Specification :

Part Number	Impedance		DCR Max. (mΩ)	Rated Current (A) Max.	Rated Voltage (V) Max.	Insulation Resistance (MΩ) Min.
	@100MHz (Ω) 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)

◆ ALCM090750M Series Specification :

Part Number	Impedance		DCR	Rated	Rated	Insulation
	@100MHz (Ω)		Max.	Current	Voltage	Resistance
	Min	Typ	(mΩ)	(A) Max.	(V) Max.	(MΩ) Min.
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

NOTE :

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

◆ ALCM131160M Series Specification :

Part Number	Impedance		DCR	Rated	Rated	Insulation
	@100MHz (Ω)		Max.	Current	Voltage	Resistance
	Min	Typ	(mΩ)	(A) Max.	(V) Max.	(MΩ) Min.
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

NOTE :

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

◆ ALCM151360M Series Specification :

Part Number	Impedance		DCR	Rated	Rated	Insulation
	@100MHz (Ω)		Max.	Current	Voltage	Resistance
	Min	Typ	(mΩ)	(A) Max.	(V) Max.	(MΩ) Min.
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

NOTE :

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

◆ ALCM121190AM Series Specification :

Part Number	Impedance		DCR	Rated	Rated	Insulation
	@100MHz (Ω)		Max.	Current	Voltage	Resistance
	Min	Typ	(mΩ)	(A) Max.	(V) Max.	(MΩ) Min.
ALCM121190AM-172T	1100	1700	26.0	5.5	125	10

NOTE :

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

◆ ALCM090770AM Series Specification :

Part Number	Impedance		DCR	Rated	Rated	Insulation
	@2.5MHz (Ω)		Max.	Current	Voltage	Resistance
	Min	Typ	(mΩ)	(A) Max.	(V) Max.	(MΩ) Min.
ALCM090770AM-152T	600	1500	50	3.0	50	10
ALCM090770AM-322T	2200	3200	125	2.0	50	10

NOTE :

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

◆ ALCM070640FC Series Specification :

Part Number	Impedance		DCR	Rated	Rated	Insulation
	@100MHz (Ω)		Max.	Current	Voltage	Resistance
	Min	Typ	(mΩ)	(A) Max.	(V) Max.	(MΩ) Min.
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)