

EMI SUPPRESSION FILTER / ATCM (for HDMI) Series

● Features

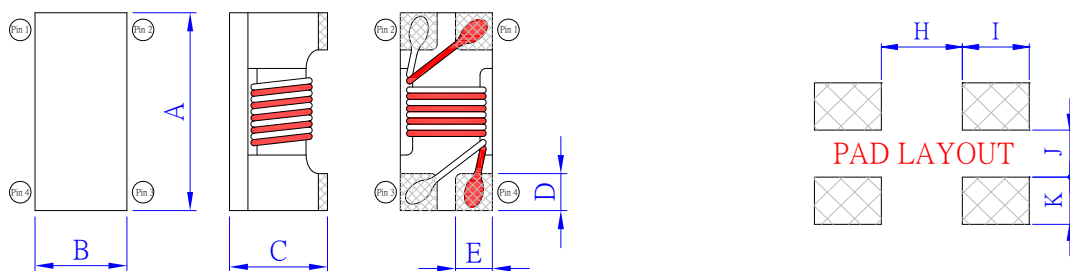
1. These are a series of broadband common mode filters developed for high-speed differential signal interface,such as DVI and HDMI.
2. The cutoff frequencies in differential mode for ATCM2012DB and ATCM2012HB are 3.5 GHz and 6.0GHz respectively,so it don't interfere with high-speed differential signals.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

● Applications

- 1.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).
- 2.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.

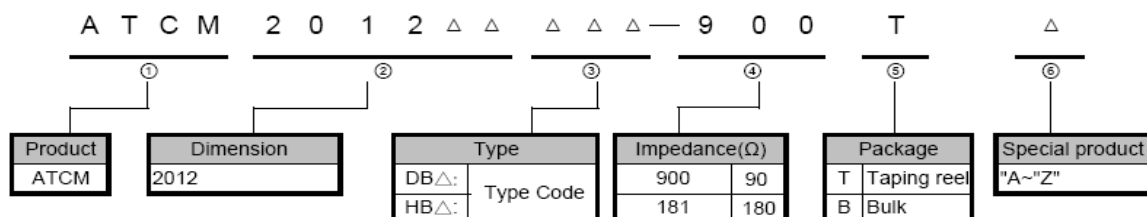


● Shape & Dimensions



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

■ PRODUCT IDENTIFICATION



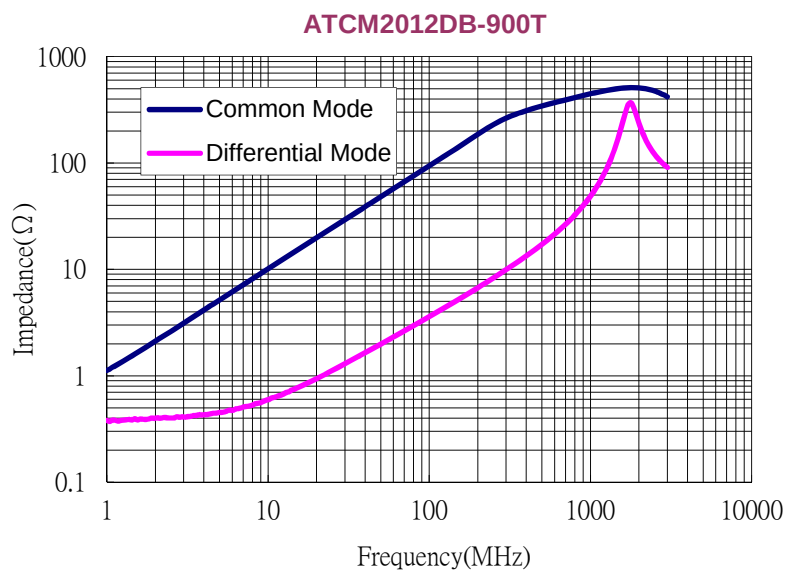
◆ ATCM2012DB Series Specification :

Part Number	Common-Mode Impedance (Ω)	Test Freq. (MHz)	DCR Max. (Ω)	Rated Current (mA) Max.	Rated Voltage (V)	Cut-off Frequency (GHz)	Insulation Resistance (M Ω) Min.
ATCM2012DB-900T	90 $\pm$ 25%	100	0.30	300	20	3.5 typ.	10

NOTE :

- * The operating temperature range is -40°C to +85°C
- * Tolerance : $\pm$ 25%

■ Typical Impedance v.s. Frequency Curve



◆ ATCM2012HB Series Specification :

Part Number	Common-Mode Impedance (Ω)	Test Freq. (MHz)	DCR Max. (Ω)	Rated Current (mA) Max.	Rated Voltage (V)	Cut-off Frequency (GHz)	Insulation Resistance (M Ω) 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 $+85^{\circ}\text{C}$
- * Tolerance : $\pm 25\%$

■ Typical Impedance v.s. Frequency Curve

