EMC Components

Common Mode Choke Coils for Signal Line SMD

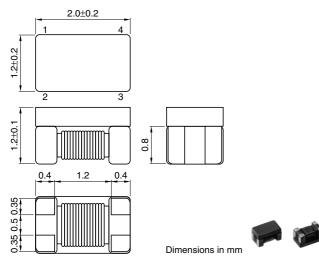
FEATURES

- These are a series of broadband common mode filters developed for high-speed differential signal interfaces, such as DVI and HDMI[™].
- The cutoff frequencies in differential mode for ACM2012D and ACM2012H are 3.5GHz and 6.0GHz respectively, so they do not interfere with high-speed differential signals.
- The characteristic impedance is approximated to 100Ω, conforming to the TDR standard for HDMI™.

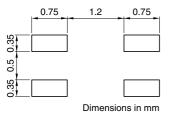
APPLICATIONS

- For new HDMI[™] interfaces used in digital video devices: ACM2012H is suited for use on the transmission side (Source) of digital TVs, DVD recorders and liquid crystal projectors. ACM2012D 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 2.0, IEEE 1394 and Serial-ATA.

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



PRODUCT IDENTIFICATION

ACM2012D/H Series

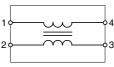
ACM	2012	D -	900 -	2P	- 🗆
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series name
- (2) Dimensions L×W
- 2012: 2.0×1.2mm
- (3) Product identification number (D or H)
- (4) Impedance[at 100MHz] 900: 90Ω
- (5) Number of line 2P: 2-line
- (6) Packaging styleT: ø180mm reel taping

TL: ø330mm reel taping B: Bulk

Packaging style	Туре	Quantity					
Taning	ø180mm	2000 pieces/reel					
Taping	ø330mm	10000 pieces/reel					

CIRCUIT DIAGRAM



No polarity

• HDMI[™] is trademark of HDMI Licensing, LLC.

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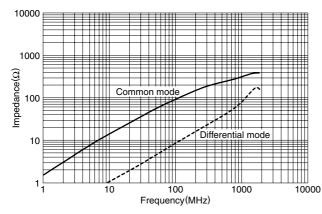
ELECTRICAL CHARACTERISTICS

Part No.	Impedance (Ω) [at 100MHz]	DC resistance (Ω) [1 line]	Rated current Idc (mA)	Rated voltage Edc (V)	Insulation resistance (MΩ)	Cut-off frequency (GHz)	Characteristic impedance (Ω)
ACM2012D-900-2P-□*	65min.(90typ.)	0.30max.	300max.	20max.	10min.	3.5typ.	100typ.
ACM2012H-900-2P-	65min.(90typ.)	0.30max.	300max.	20max.	10min.	6typ.	100typ.

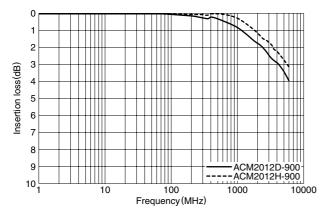
* □ : Packaging style (T: ø180mm reel/ TL: ø330mm reel/ B: Bulk)

• -25 to +85°C

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS(REFERENCE) ACM2012D-900-2P AC

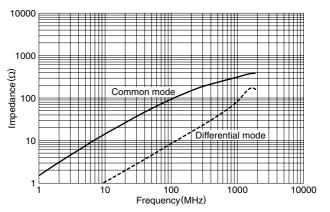


INSERTION LOSS vs. FREQUENCY CHARACTERISTICS (REFERENCE)



ACM2012H-900-2P

ACM2012D/H Series



CHARACTERISTIC IMPEDANCE MEASURED ACCORDING TO TDR(REFERENCE)

