

Common Mode Filters(SMD) For HDMI/S-ATA

Conformity to RoHS Directive

TCM Series TCM2010H Type

FEATURES

- TCM2010H is thin film common mode filter array type developed for high speed differential signal interfaces, such as HDMI™, S-ATA.
- TCM2010H is the product which constructed with two circuits in a small one chip of L2.0×W1.0mm.
- TCM2010H suppress the radiated emission without the distortion of differential signal.
- The cut-off frequency of TCM2010H for differential signal mode is 6GHz, so this couldn't interfere higher-speed differential signals such as HDMI™, S-ATA.

APPLICATIONS

HDMI™, S-ATA etc.

TEMPERATURE RANGE

Operating	-25 to +85°C
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PACKAGING STYLE AND QUANTITIES

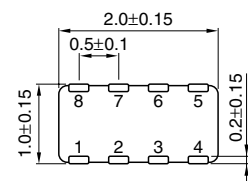
Packaging style	Quantity
Taping	4000 pieces/reel

PRODUCT IDENTIFICATION

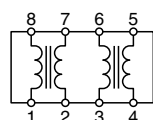
TCM	2010	H	- 900	- 4P	- T	□□□
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1) Series name
- (2) Dimensions L×W
- (3) Product identification number
- (4) Impedance[at 100MHz]
900: 90Ω
- (5) Number of line
4P: 4-line
- (6) Packaging style
T: ø180mm reel taping
- (7) TDK internal code

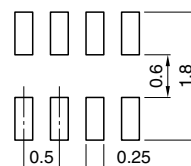
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



Weight: 8mg
Dimensions in mm



• No polarity



Dimensions in mm



ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω) [at 100MHz]	Cut-off frequency (GHz)	DC resistance (Ω)max. [1 line]	Rated current Idc (mA)max.	Rated voltage Edc (V)max.	Insulation resistance (MΩ)min.
TCM2010H-900-4P	90±25	6typ.	1	100	10	10

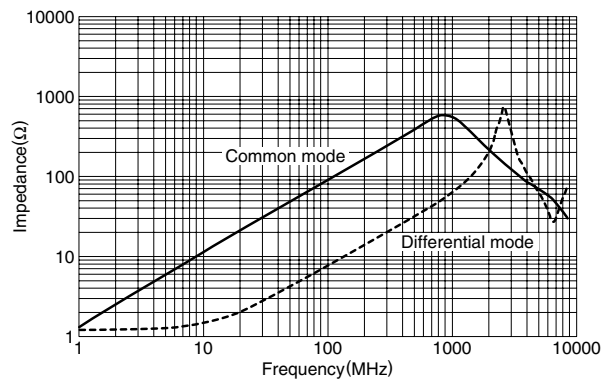
- HDMI™ is trademark of HDMI Licensing, LLC.

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

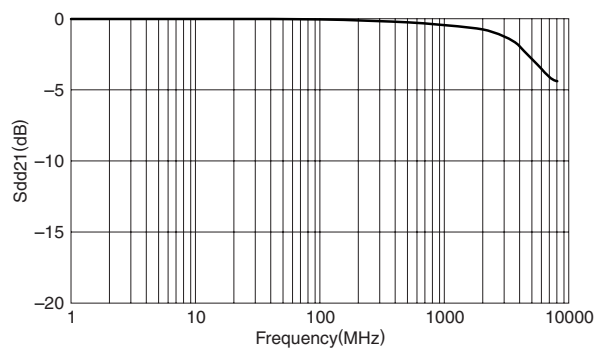
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

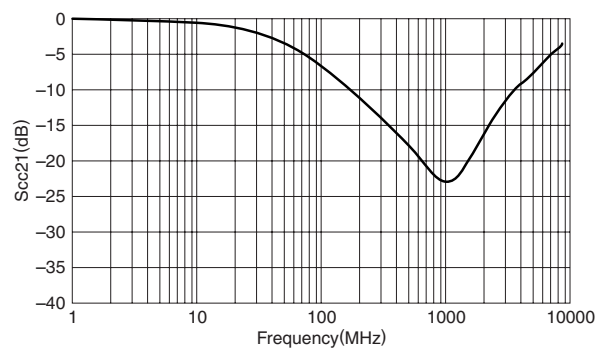


INSERTION LOSS vs. FREQUENCY CHARACTERISTICS

DIFFERENTIAL MODE



COMMON MODE



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