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# Common Mode Filters(SMD) For High-speed Differential Signal Line

Conformity to RoHS Directive

## TCM Series TCM1210 Type

### FEATURES

- The TCM series is compact sized common mode filter in industry.
- By providing wide bandwidth (cutoff frequency: 3GHz) for differential mode, this product has almost no effect for high-speed differential signals and can suppress the radiated emission.
- This product contains no lead and supports lead-free soldering.

### APPLICATIONS

- High speed interface(LVDS, IEEE1394 and USB2.0) in electronics devices.
- PDP/LCD/DLP/PJ TV, DVD player, notebook PCs, DVC, DSC, amusement machines, portable audio, digital cellular phones, etc.

### TEMPERATURE RANGE

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

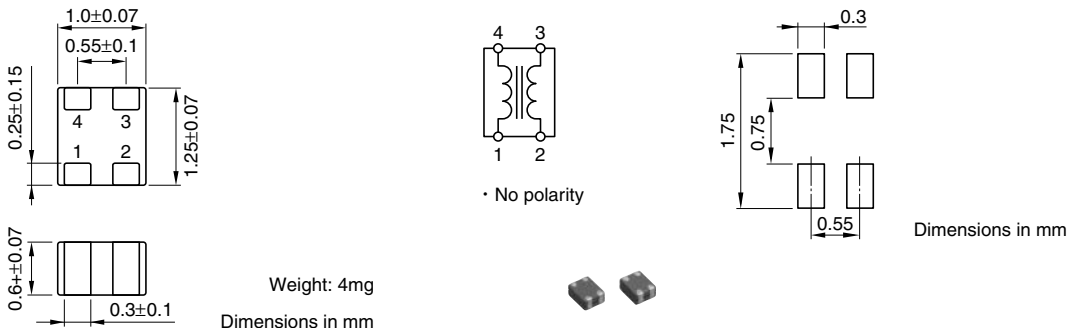
Packaging style	Quantity
Taping	4000 pieces/reel

### PRODUCT IDENTIFICATION

TCM	1210	-	900	-	2P	-	T
(1)	(2)		(3)		(4)		(5)

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

### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS



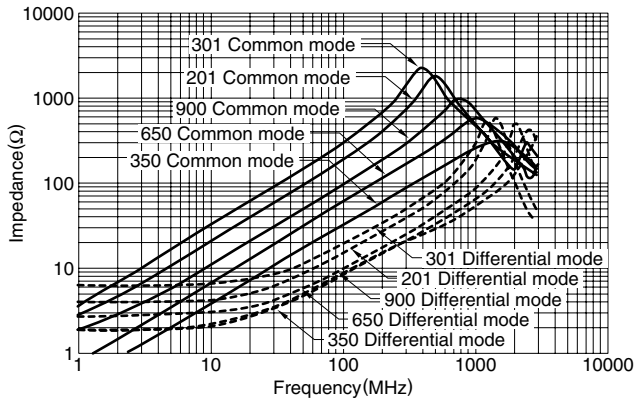
### ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω) [100MHz]	DC resistance (Ω)[1 line]	Rated current I <sub>dc</sub> (A)max.	Rated voltage E <sub>dc</sub> (V)max.	Insulation resistance (MΩ)min.
TCM1210-350-2P	35±30%	0.7±30%	0.1	10	10
TCM1210-650-2P	65±20%	0.85±30%	0.1	10	10
TCM1210-900-2P	90±20%	1.2±30%	0.1	10	10
TCM1210-201-2P	200±20%	1.7±30%	0.1	10	10
TCM1210-301-2P	300±20%	2.5±30%	0.1	10	10

• 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



• All specifications are subject to change without notice.