

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

Conformity to RoHS Directive

## TCM Series TCM1210G Type

### FEATURES

- The TCM1210G(L1.25×W1.00×T0.60mm) is compact sized common mode filter.
- 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 TVs, DVD players, notebook PCs, DVC, DSC, amusement machines, portable audio, digital cellular phones, etc.

### TEMPERATURE RANGE

Operating	-25 to +85°C
-----------	--------------

### PACKAGING STYLE AND QUANTITIES

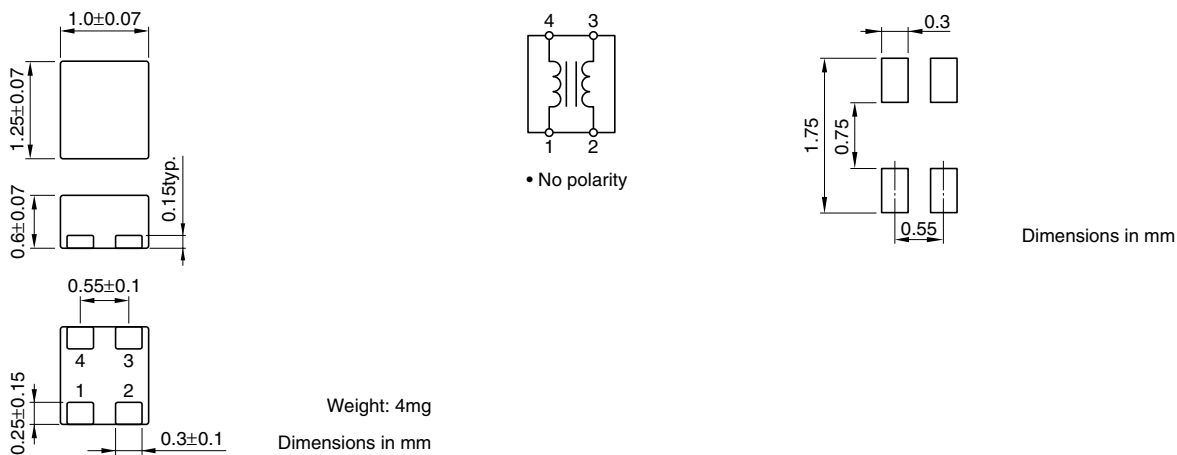
Packaging style	Quantity
Taping	4000 pieces/reel

### PRODUCT IDENTIFICATION

TCM	1210	G	- 900	- 2P	- T
(1)	(2)	(3)	(4)	(5)	(6)

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

### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



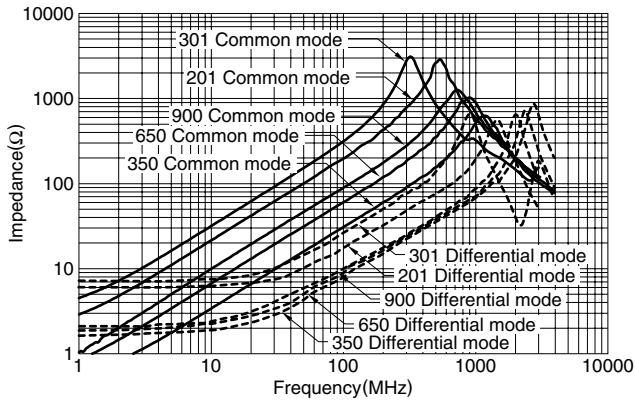
### ELECTRICAL CHARACTERISTICS

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.
TCM1210G-350-2P	35±30%	0.70±30%	0.10	10	10
TCM1210G-650-2P	65±20%	0.85±30%	0.10	10	10
TCM1210G-900-2P	90±20%	1.20±30%	0.10	10	10
TCM1210G-201-2P	200±20%	3.00±30%	0.05	10	10
TCM1210G-301-2P	300±20%	3.50±30%	0.05	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.