⚡TDK

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.

PRODUCT IDENTIFICATION

$$\underset{(1)}{\underline{TCM}} \quad \underset{(2)}{\underline{1210}} \quad \underset{(3)}{\underline{G}} - \underset{(4)}{\underline{900}} - \underset{(5)}{\underline{2P}} - \underset{(6)}{\underline{T}}$$

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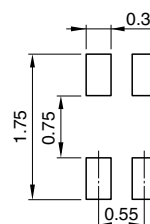(6) Packaging style
   T: ø180mm reel taping

TEMPERATURE RANGE

Operating	−25 to +85°C

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	4000 pieces/reel

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN
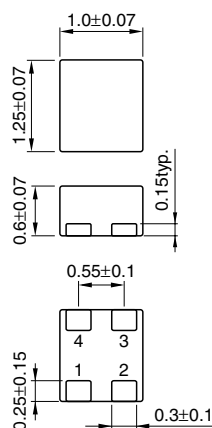
• No polarity
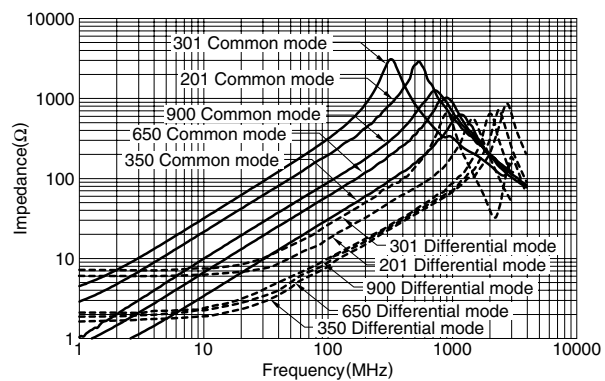
Weight: 4mg

Dimensions in mm
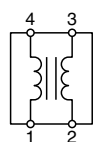
Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω) [100MHz]	DC resistance (Ω)[1 line]	Rated current Idc(A)max.	Rated voltage Edc(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.

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TYPICAL ELECTRICAL CHARACTERISTICS
IMPEDANCE vs. FREQUENCY CHARACTERISTICS

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