

# 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 highspeed 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.

Weight: 4mg
Dimensions in mm

#### **TEMPERATURE RANGE**

Operating	−25 to +85°C	

#### **PACKAGING STYLE AND QUANTITIES**

Packaging style	Quantity
Taping	4000 pieces/reel

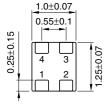
#### PRODUCT IDENTIFICATION

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

- (1) Series name
- (2) Dimensions L×W
- (3) Impedance[at 100MHz] 900:  $90\Omega$
- (4) Number of line 2P: 2-line
- (5) Packaging style

T: ø180mm reel taping

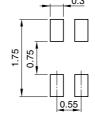
#### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS







· No polarity



Dimensions in mm

### **ELECTRICAL CHARACTERISTICS**

Part No.	Common mode impedance $(\Omega)$ [100MHz]	DC resistance $(\Omega)[1 \text{ line}]$	Rated current Idc(A)max.	Rated voltage Edc(V)max.	Insulation resistance $(M\Omega)$ 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

