

# Common Mode Filters(SMD)

For USB / LVDS

## TCM series

Type:            TCM1608G    [0603 inch]\*  
   \* Dimensions Code JIS[EIA]

Issue date:      **December 2010**

- All specifications are subject to change without notice.
  - 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.
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# Common Mode Filters(SMD) For High-speed Differential Signal Line

Conformity to RoHS Directive

## TCM Series TCM1608G Type

### FEATURES

- The TCM1608G (L1.6×W0.8×T0.4mm) is a dual-circuit modularized common mode filter array that is in the smallest class in the 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 TVs, DVD players, 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

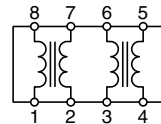
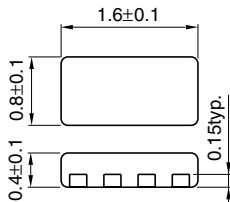
Packaging style	Quantity
Taping	4000 pieces/reel

### PRODUCT IDENTIFICATION

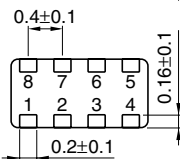
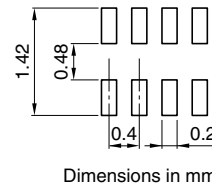
TCM	1608	G	- 201	- 4P	- T
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series name
- (2) Dimensions L×W
- (3) Product identification number
- (4) Impedance[at 100MHz]  
201: 200Ω
- (5) Number of line  
4P: 4-line
- (6) Packaging style  
T: ø180mm reel taping

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



• No polarity



Weight: 3mg

Dimensions in mm

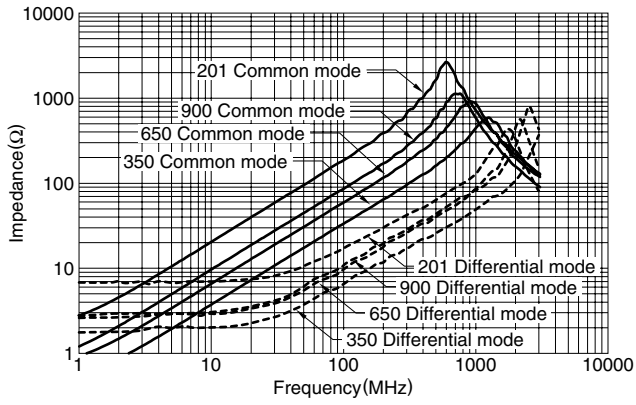
### ELECTRICAL CHARACTERISTICS

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.
TCM1608G-350-4P	35±30%	0.85±30%	0.10	5	10
TCM1608G-650-4P	65±20%	1.30±30%	0.10	5	10
TCM1608G-900-4P	90±20%	1.50±30%	0.10	5	10
TCM1608G-201-4P	200±20%	4.00±30%	0.05	5	10

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### TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



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