TDK

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

Conformity to RoHS Directive

TCM Series TCM2010 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.

PRODUCT IDENTIFICATION

TCM	2010	-	101	-	4P	-	T
(1)	(2)		(3)		(4)		(5)

(1) Series name
(2) Dimensions L×W
(3) Impedance[at 100MHz]
101: 100Ω
(4) Number of line
4P: 4-line
(5) Packaging style
T: ø180mm reel taping

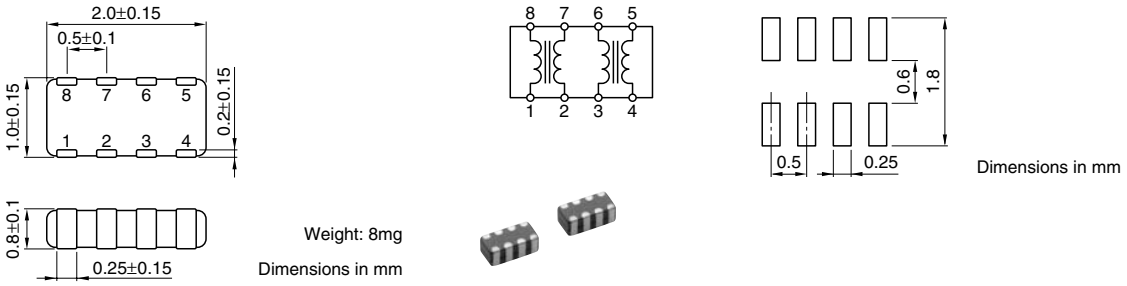
TEMPERATURE RANGE

Operating	–25 to +85°C

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	4000 pieces/reel

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS



Weight: 8mg

Dimensions in mm

Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω) [100MHz]		DC resistance (Ω)max.	Rated current Idc(mA)max.	Rated voltage Edc(V)max.	Insulation resistance (MΩ)min.
	min.	typ.				
TCM2010-650-4P	50	65	1.5	100	10	10
TCM2010-101-4P	80	100	1.5	100	10	10
TCM2010-201-4P	160	200	2.0	100	10	10
TCM2010-261-4P	200	260	5.0	40	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.

TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS