



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

Conformity to RoHS Directive

TCM Series TCM1210, 2010 Types

FEATURES

- The sizes of TCM series are the smallest in industry.
TCM1210: L1.25×W1.0mm
TCM2010: L2.0×W1.0mm(2 circuits in one chip)
- 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.

TEMPERATURE RANGES

Operating	-25 to +85°C
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PACKAGING STYLE AND QUANTITIES

Type	Quantity
TCM1210	4000 pieces/reel
TCM2010	4000 pieces/reel

PRODUCT IDENTIFICATION

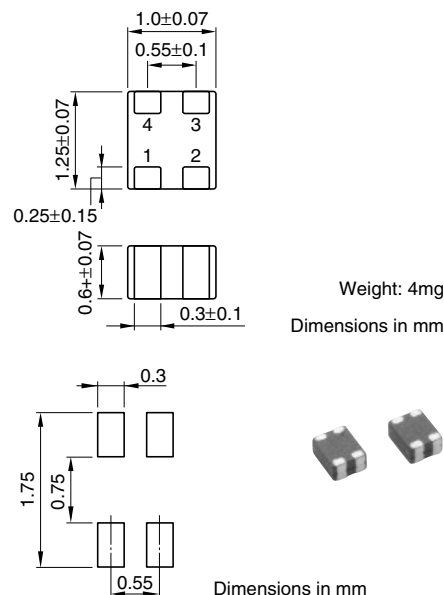
TCM	1210	-	900	-	2P	-	T	***
(1)	(2)		(3)		(4)		(5)	(6)

TCM	2010	-	101	-	4P	-	T	***
(1)	(2)		(3)		(4)		(5)	(6)

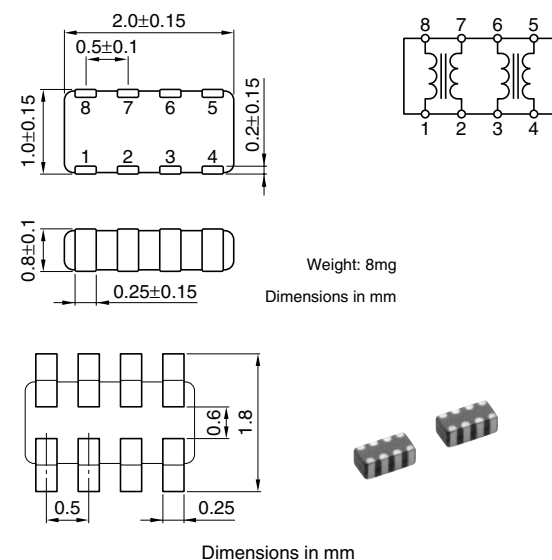
- Series name
- Dimensions
- Impedance[at 100MHz]
900: 90Ω
- Number of line
2P: 2-line
4P: 4-line
- Packaging style
T: ø180mm reel taping
- TDK internal code

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS

TCM1210 TYPE



TCM2010 TYPE



• 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.

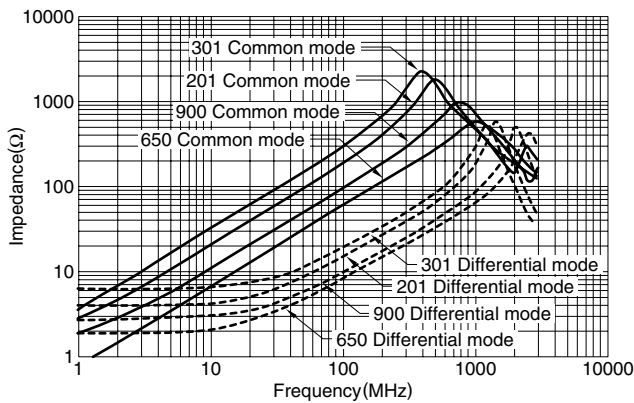
• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

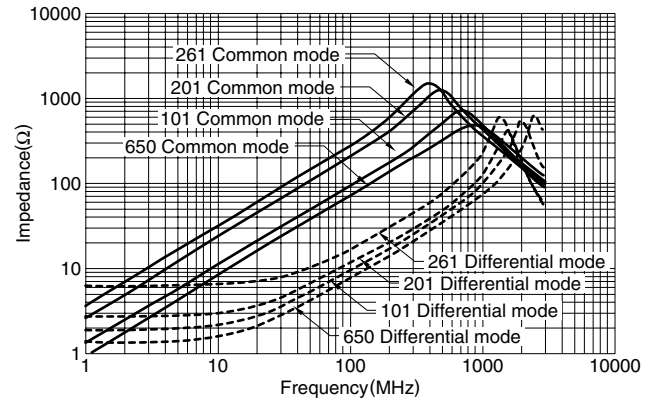
Part No.	Common mode impedance (Ω) [100MHz]		DC resistance (Ω)max.	Rated current Edc(mA)max.	Rated voltage Edc(V)max.	Insulation resistance (M Ω)min.
	min.	typ.				
TCM1210-650-2P	50	65	1.5	100	10	10
TCM1210-900-2P	65	90	1.75	100	10	10
TCM1210-201-2P	150	200	2.7	100	10	10
TCM1210-301-2P	225	300	3.5	50	10	10
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

TYPICAL ELECTRICAL CHARACTERISTICS

TCM1210 TYPE

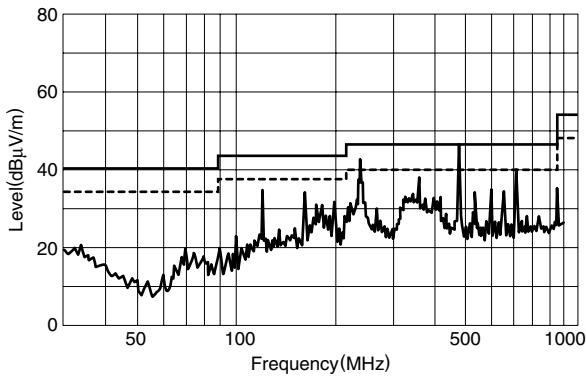


TCM2010 TYPE



TYPICAL EMC SUPPRESSION EFFECT

(1) Without EMC



(2) With TCM1210-900-2P

