

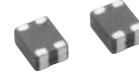
EMC Components

Common Mode Choke Coils for Signal Line SMD

TCM Series TCM1210 Type

FEATURES

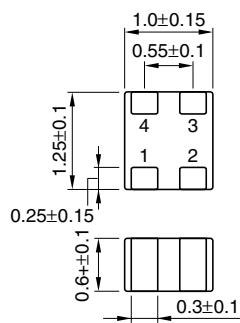
- This compact thin-film common mode filter has with a size of L1.25×W1.0mm.
- We have succeeded in reducing its thickness to 0.6mm.
- By providing wide bandwidth (cutoff frequency: 3GHz) for differential mode transfers while maintaining common mode impedance, this filter provides noise reduction and has almost no effect on high-speed differential transfer line signals.
- This product contains no lead and supports lead-free soldering.



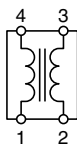
APPLICATIONS

For radiant noise reduction in electronics devices.
LVDS lines and IEEE1394 interfaces used in notebook PCs and LCD monitors.

SHAPES AND DIMENSIONS



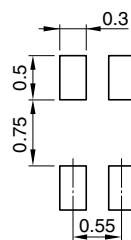
CIRCUIT DIAGRAM



Weight: 4mg

Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

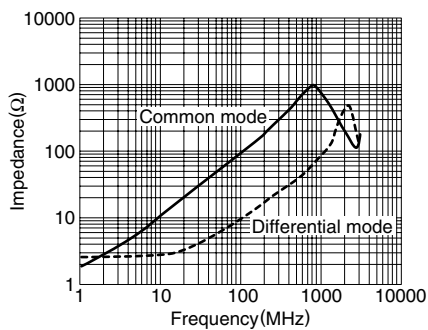
Part No.	Common mode impedance (Ω) [100MHz]		DC resistance (Ω)max.	Rated current (mA)max.	Insulation resistance (M Ω)max.	Rated voltage (V)max.
	min.	typ.				
TCM1210-900-2P	65	90	1.75	100	10	10
TCM1210-201-2P	150	200	2.7	100	10	10
TCM1210-301-2P	225	300	3.5	50	10	10

- Operating temperature range: -25 to +85°C

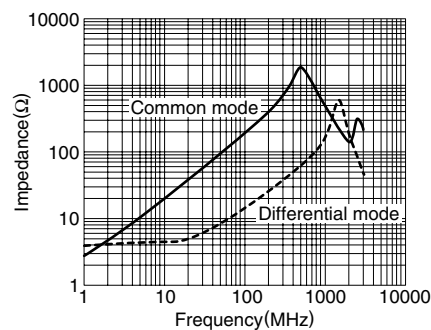
TYPICAL ELECTRICAL CHARACTERISTICS

IMPEDANCE vs. FREQUENCY CHARACTERISTICS

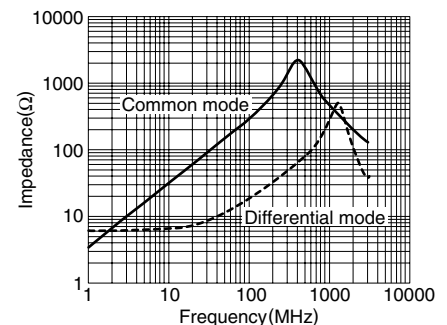
TCM1210-900



TCM1210-201



TCM1210-301



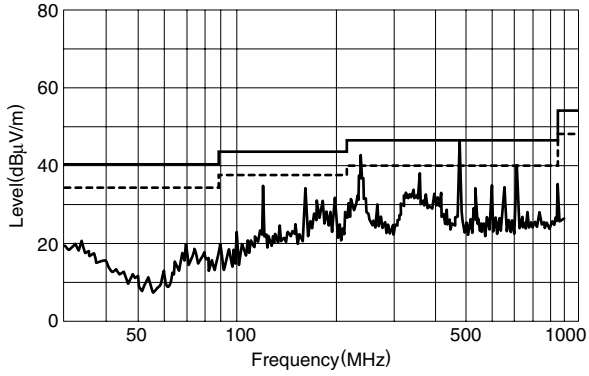
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TYPICAL EMC SUPPRESSION FEFFECT

(1) Without EMC



(2) With TCM1210-900-2P

