

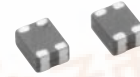
## EMC Components

## TCM Series TCM1210 Type

### Common Mode Choke Coils for Signal Line SMD

#### 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.

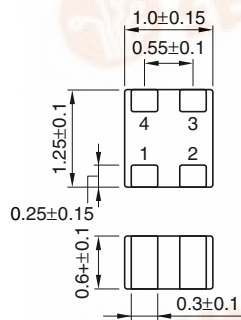


#### APPLICATIONS

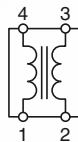
For radiant noise reduction in electronics devices.

LVDS lines and IEEE1394 interfaces used in notebook PCs and LCD monitors.

#### SHAPES AND DIMENSIONS



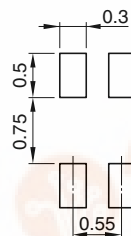
#### CIRCUIT DIAGRAM



Weight: 4mg

Dimensions in mm

#### RECOMMENDED PC BOARD PATTERN



Dimensions in mm

#### ELECTRICAL CHARACTERISTICS

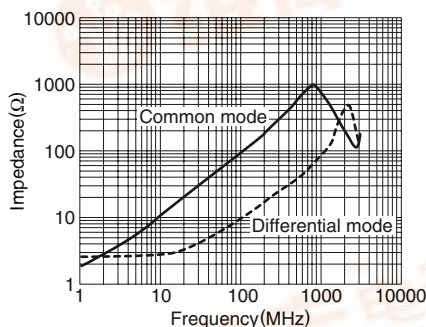
Part No.	Common mode impedance (Ω) [100MHz]		DC resistance (Ω)max.	Rated current (mA)max.	Insulation resistance (MΩ)max.	Rated voltage (V)max.
	min.	typ.				
TCM1210-900-2P	65	90	1.75	100	10	10
TCM1210-201-2P	150	200	2.7	100	10	10
TCM1210-301-2P	225	300	3.5	50	10	10

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

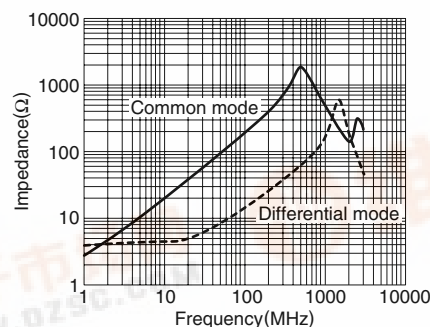
#### TYPICAL ELECTRICAL CHARACTERISTICS

##### IMPEDANCE vs. FREQUENCY CHARACTERISTICS

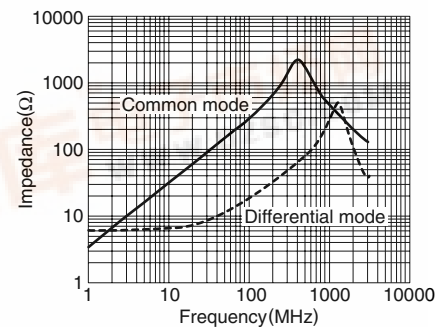
##### TCM1210-900



##### TCM1210-201



##### TCM1210-301



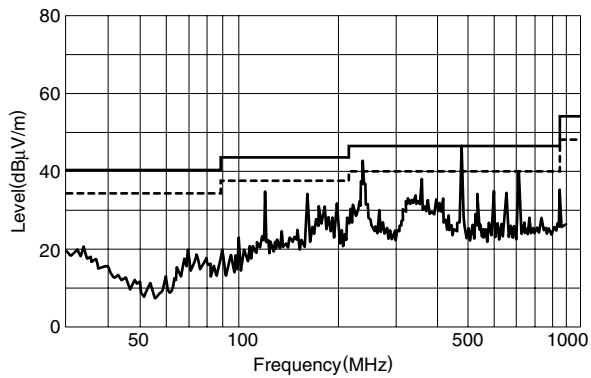
## EMC Components

Common Mode Choke Coils for Signal Line  
SMD

TCM Series TCM1210 Type

### TYPICAL EMC SUPPRESSION EFFECT

(1) Without EMC



(2) With TCM1210-900-2P

