

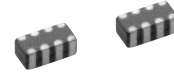
# EMC Components

## Common Mode Choke Coils for Signal Line SMD

## TCM Series TCM2010 Type

### FEATURES

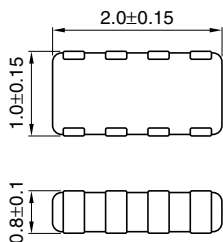
- With a size of 2.0×1.0 mm, this compact thin-film common mode filter features two circuits.
- We have succeeded in reducing its thickness to 0.8 mm.
- By providing wide bandwidth (cutoff frequency: 3GHz) for differential mode transfers while maintaining common mode impedance, this filter provides noise reduction and has almost no effect on high-speed differential transfer line signals.
- This product contains no lead and supports lead-free soldering.



### APPLICATIONS

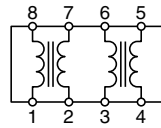
For radiant noise reduction in electronics devices. LVDS lines and IEEE 1394 interfaces used in notebook PCs and LCD monitors

### SHAPES AND DIMENSIONS

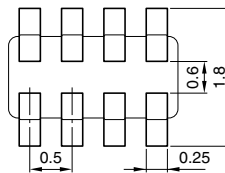


Dimensions in mm

### CIRCUIT DIAGRAM



### RECOMMENDED PC BOARD PATTERN



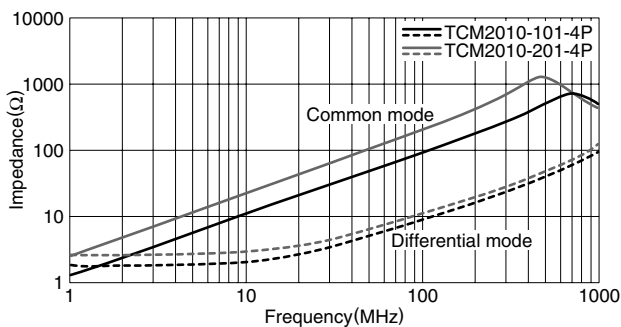
Dimensions in mm

### ELECTRICAL CHARACTERISTICS

Part No.	Rated voltage E <sub>dc</sub> (V)max.	Rated current (A)max.	Common mode impedance (Ω) [100MHz, at 20°C]	DC resistance (Ω)max. [each line]
TCM2010-101-4P	10	0.1	100±20%	1.5
TCM2010-201-4P	10	0.1	200±20%	2.0

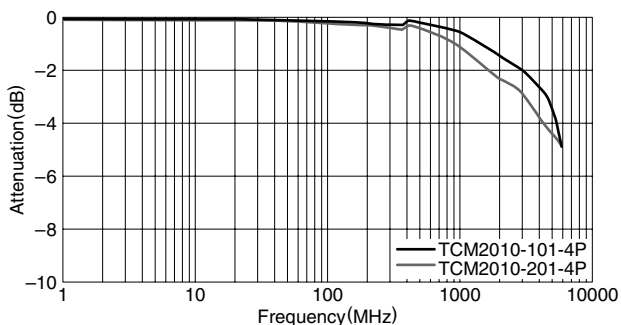
### ELECTRICAL CHARACTERISTICS

#### IMPEDANCE vs. FREQUENCY CHARACTERISTICS



### REFERENCE CHARACTERISTICS

#### DIFFERENTIAL MODE TRANSMISSION CHARACTERISTICS



#### CHARACTERISTICS IMPEDANCE

