

## 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.

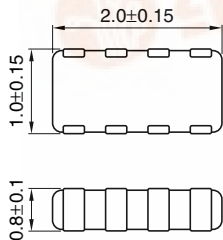


#### APPLICATIONS

For radiant noise reduction in electronics devices.

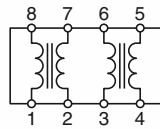
LVDS lines and IEEE 1394 interfaces used in notebook PCs and LCD monitors

#### SHAPES AND DIMENSIONS

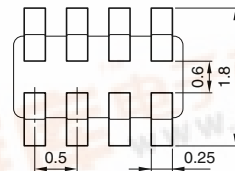


Dimensions in mm

#### CIRCUIT DIAGRAM



#### RECOMMENDED PC BOARD PATTERN



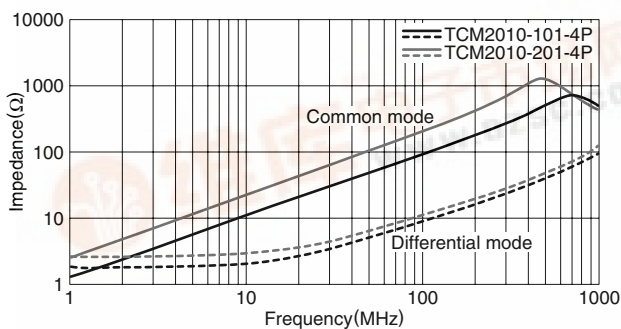
Dimensions in mm

#### ELECTRICAL CHARACTERISTICS

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

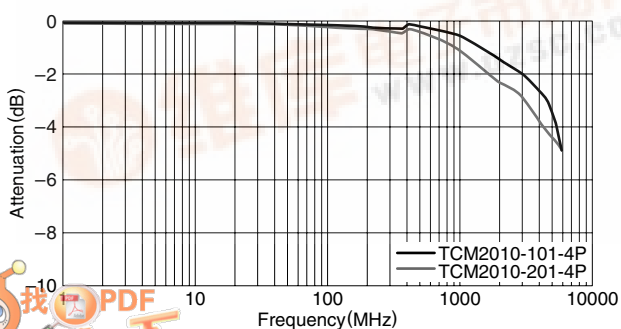
#### ELECTRICAL CHARACTERISTICS

##### IMPEDANCE vs. FREQUENCY CHARACTERISTICS



#### REFERENCE CHARACTERISTICS

##### DIFFERENTIAL MODE TRANSMISSION CHARACTERISTICS



#### CHARACTERISTICS IMPEDANCE

