

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

Conformity to RoHS Directive

TCM Series TCM0605G Type

FEATURES

- Smallest thin-film common mode filter in the industry at L0.65×W0.50×T0.30mm.
- Effectively suppresses radiated noise due to common mode noise without affecting the transmission of high-speed differential signals.
- This product contains no lead and supports lead-free soldering.

APPLICATIONS

- High speed interface(USB2.0, MIPI, LVDS, IEEE1394 and HDMI, etc.) in electronics devices.
- Portable audio, digital cellular phones, DVC, DSC, notebook PCs, PDP/LCD/DLP/PJ TVs, DVD players, amusement machines, etc.

TEMPERATURE RANGE

| | |
|-----------|--------------|
| Operating | -25 to +85°C |
|-----------|--------------|

PACKAGING STYLE AND QUANTITIES

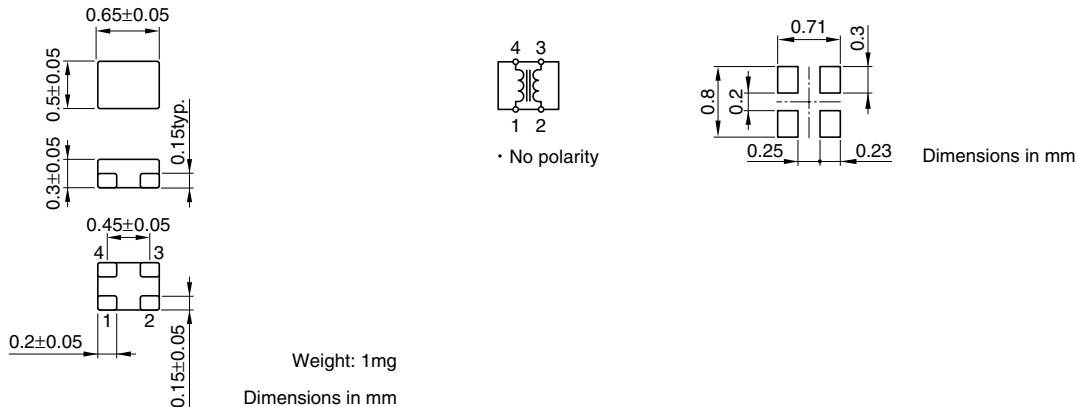
| | |
|-----------------|-------------------|
| Packaging style | Quantity |
| Taping | 10000 pieces/reel |

PRODUCT IDENTIFICATION

| | | | | | |
|-----|------|-----|-------|------|-----|
| TCM | 0605 | G | - 900 | - 2P | - T |
| (1) | (2) | (3) | (4) | (5) | (6) |

- (1) Series name
 (2) Dimensions L×W
 (3) Product identification number
 (4) Impedance[at 100MHz]
 900: 90Ω
 (5) Number of line
 2P: 2-line
 (6) Packaging style
 T: ø180mm reel taping

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Common mode impedance (Ω) [100MHz] | DC resistance (Ω)[1 line] | Rated current Idc(A)max. | Rated voltage Edc(V)max. | Insulation resistance (MΩ)min. |
|----------------------|------------------------------------|---------------------------|--------------------------|--------------------------|--------------------------------|
| TCM0605G-900-2P-T000 | 90±20% | 3±30% | 0.1 | 10 | 10 |

• 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.

TYPICAL ELECTRICAL CHARACTERISTICS
IMPEDANCE vs. FREQUENCY CHARACTERISTICS

