

# Common Mode Filters(SMD)

## For High-speed Differential Signal Line

Conformity to RoHS Directive

### TCM Series TCM0806G Type

#### FEATURES

- The TCM0806G (L0.85×W0.65×T0.40mm) is an ultra-compact common mode filter that is in the smallest class in the industry.
- By providing wide bandwidth (cutoff frequency: 3GHz) for differential mode, this product has almost no effect for high-speed differential signals and can suppress the radiated emission.
- This product contains no lead and supports lead-free soldering.

#### APPLICATIONS

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

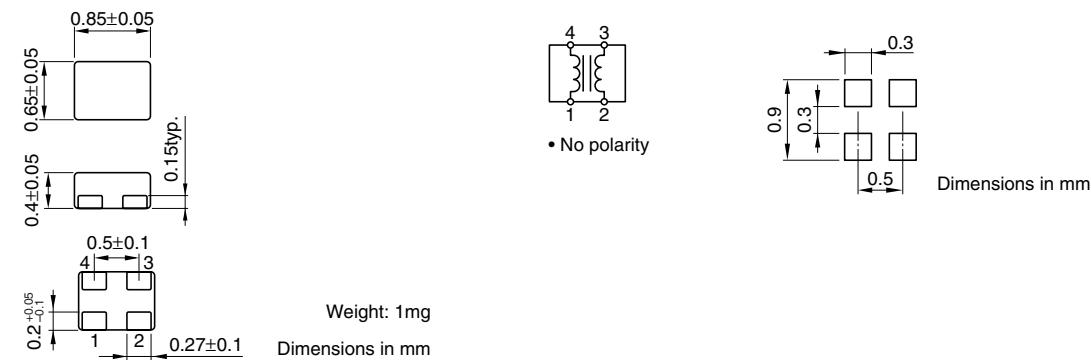
#### TEMPERATURE RANGE

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

#### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	10000 pieces/reel

#### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



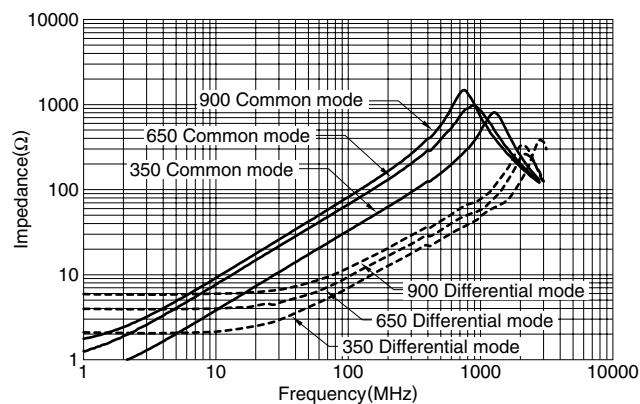
#### ELECTRICAL CHARACTERISTICS

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.
TCM0806G-350-2P	35±30%	1.15±30%	0.10	10	10
TCM0806G-650-2P	65±20%	2.50±30%	0.10	10	10
TCM0806G-900-2P	90±20%	2.70±30%	0.10	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**



- All specifications are subject to change without notice.