

**TSCM9583 Series (Rev. 1.0)**



**Features**

- \* RoHS compliant
- \* Miniature SMD type common mode filter for fully automated assembly
- \* Wide impedance range (30 ~ 2200Ω) for noise suppression

**Product Identification**

TSCM    9583    -    801    N  
 1            2            3            4

1. Product Code
2. Size Code
3. Impedance: 800 ohm
4. Tolerance

**Applications**

- \* USB line for personal computers and periphera
- \* IEEE 1394 line for personal computers, DVC, STB
- \* LVDS, panel line for liquid display panels, graph card,etc.

**Operating & Storage Condition**

- \* Operating Temp. : -40 to +85°C
- \* Storage Temp. : -40 to +85°C
- \* Storage Life Time : 12 Months @25°C , RH 65%

**Test Equipment**

- \* HP4291A-Z, HP4284A,HP42841A- L,IDC,Q,RDC
- \* HP8753D Network Analyzer- SRF

**Standard Atmospheric Conditions**

- \* Ambient Temp : 20+/-15°C
- \* Relative Humidity : 65+/-20%

**Dimension & Recommended Pad Layout: [mm]**

| Top View | Side View | Bottom View | Pad Layout | Schematic |
|----------|-----------|-------------|------------|-----------|
|          |           |             |            |           |
|          |           |             |            |           |
|          |           |             |            |           |

  

| Size Code | A(±0.3) | B(±0.3) | C(max.) | D(typ.) | E(typ.) | F(typ.) |
|-----------|---------|---------|---------|---------|---------|---------|
| 9583      | 9.5     | 8.3     | 5.3     | 1.2     | 7.5     | 6.3     |

**Electrical Characteristics**

| P/N           | Impedance @100MHz (Ω) | Inductance (uH) typ. | DCR (mΩ) max. | IDC (A) max. | Insulation (VAC) max. |
|---------------|-----------------------|----------------------|---------------|--------------|-----------------------|
| TSCM9583-501N | 500 typ.              | 5.0                  | 5.5           | 5.0          | 500                   |
| TSCM9583-801N | 800 typ.              | 9.0                  | 11            | 3.5          | 500                   |
| TSCM9583-102N | 1000 typ.             | 11.0                 | 30            | 2.5          | 500                   |
| TSCM9583-222N | 2200 typ.             | 30.0                 | 60            | 1.4          | 500                   |

\* Inductance Test Condition: @100KHz/0.1V  
 \* IDC : D.C.current when at ΔT=40°C

