

TSCM0903C Series (Rev. 1.0)



Features

- * ROHS compliant
- * Compact size
- * Excellent solderability
- * Surface mount

Product Identification

TSCM 0903C - 180 I
 1 2 3 4

1. Product Code
2. Size Code
3. Inductance: 18uH
4. Tolerance: I=minimum

Applications

- * Low current switching power supplies
- * Telecom applications

Operating & Storage Condition

- * Operating Temp. : -40 to +80°C
- * Storage Temp. : -40 to +80°C
- * Storage Life Time : 12 Months @25°C , RH 70%

Test Equipment

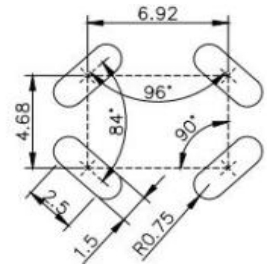
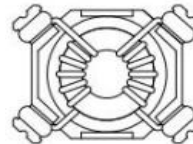
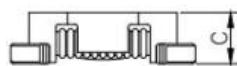
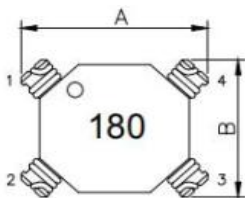
- * Wayne kerr 3260B/G LCR Meter
- * Wayne kerr 3265B Bias Current Source * CH9053

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



Size Code	A(max.)	B(max.)	C(max.)
0903C	9.4	7.2	3.0

Schematic:



Electrical Characteristics

P/N	Inductance Pin(1-2)&(4-3) (uH) min.	Leakage Inductance (uH) typ.	DCR (mΩ) max.	IDC (A) max.	Hipot @3mA/1S (VDC)
TSCM0903C-4R5I	4.5	0.05	2.7	7.0	500
TSCM0903C-8R0I	8.0	0.09	4.0	5.7	500
TSCM0903C-120I	12.0	0.14	7.7	4.1	500
TSCM0903C-180I	18.0	0.20	8.9	3.8	500
TSCM0903C-200I	20.0	0.25	9.3	3.8	500
TSCM0903C-250I	25.0	0.28	10.0	3.6	500
TSCM0903C-330I	33.0	0.36	13.8	3.1	500

* Test Condition: @100KHz /0.1V (Ambient temperature: 25°C)

* IDC: ΔT=40°C Typ.

