

TSCM Series (Rev. 5.0)



Features

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

Product Identification

TSCM 2012 - 900 N
 1 2 3 4

1. Product Code
2. Size Code
3. Impedance: 90 ohm @100MHz
4. Tolerance: N=±25%

Common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications.

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%

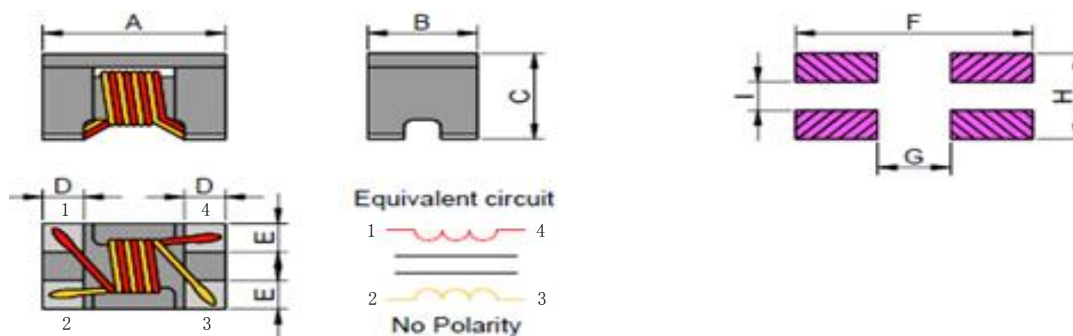
Test Equipment

- * 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]



Size Code	A(±0.2)	B(±0.2)	C(±0.2)	D(±0.2)	E(±0.2)	F(typ.)	G(typ.)	H(typ.)	I(typ.)	EIA Code
1210	1.2	1.0	0.8	0.3	0.4	1.8	0.5	1.2	0.2	0504
1608	1.6	0.8	1.1	0.3	0.3	2.2	0.6	1.0	0.2	0603
2012	2.0	1.2	1.2	0.4	0.4	2.6	0.8	1.4	0.4	0805
3216	3.2	1.6	1.8	0.6	0.6	3.8	1.6	1.8	0.4	1206
3225	3.2	2.5	2.2	0.8	0.9	4.4	1.6	3.5	0.6	1210
4532	4.5	3.2	2.8	1.0	1.2	4.8	2.5	3.8	0.7	1812

TSCM Series (Rev. 1.0)

Electrical Characteristics

P/N	Impedance @100MHz (Ω) ±25%	Rated Voltage (VDC) max.	DCR (Ω) max.	IDC (mA) max.	Insulation Resis. (MΩ) min.
TSCM1210-350N	35	20	0.18	430	10
TSCM1210-600N	60	20	0.30	400	10
TSCM1210-900N	90	20	0.30	400	10
TSCM1210-161N	160	20	0.60	260	10
TSCM1608-250N	25	20	0.10	500	10
TSCM1608-600N	60	20	0.20	350	10
TSCM1608-900N	90	20	0.25	300	10
TSCM1608-141N	140	20	0.25	300	10
TSCM1608-221N	220	20	0.25	300	10
TSCM2012-670N	67	50	0.25	400	10
TSCM2012-900N	90	50	0.30	400	10
TSCM2012-121N	120	50	0.30	370	10
TSCM2012-161N	160	50	0.35	330	10
TSCM2012-181N	180	50	0.35	330	10
TSCM2012-221N	220	50	0.40	330	10
TSCM2012-261N	260	50	0.40	330	10
TSCM2012-361N	360	50	0.40	280	10
TSCM2012-401N	400	50	0.40	50	10
TSCM3216-900N	90	50	0.30	370	10
TSCM3216-121N	120	50	0.30	370	10
TSCM3216-161N	160	50	0.40	340	10
TSCM3216-261N	260	50	0.50	310	10
TSCM3216-601N	600	50	0.80	260	10
TSCM3216-102N	1000	50	1.00	230	10
TSCM3216-222N	2200	50	1.20	200	10
TSCM3225-800N	80	50	0.12	640	10
TSCM3225-161N	160	50	0.15	480	10
TSCM3225-271N	270	50	0.25	450	10
TSCM3225-501N	500	50	0.30	1000	10
TSCM3225-601N	600	50	0.32	1000	10
TSCM3225-801N	800	50	0.35	350	10
TSCM3225-102N	1000	50	0.35	480	10
TSCM4532-800N	80	50	0.05	3000	10
TSCM4532-900N	90	50	0.09	3000	10
TSCM4532-121N	120	50	0.10	3000	10
TSCM4532-161N	160	50	0.09	1500	10
TSCM4532-201N	200	50	0.10	1500	10
TSCM4532-221N	220	50	0.10	1300	10
TSCM4532-331N	330	50	0.11	1100	10
TSCM4532-501N	500	50	0.12	1000	10
TSCM4532-601N	600	50	0.12	1000	10
TSCM4532-701N	700	50	0.12	1000	10
TSCM4532-801N	800	50	0.16	900	10
TSCM4532-102N	1000	50	0.18	500	10
TSCM4532-142N	1400	50	0.20	700	10

* IDC: Temp. rise 40°C typ.

