

TSCM0904 Series (Rev. 5.0)



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

Features

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

Product Identification

TSCM
1
0904
2
-
101
3

1. Product Code
2. Size Code
3. Inductance: 100uH

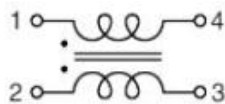
Standard Atmospheric Conditions

- * 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.)	D(typ.)	E(typ.)	F(typ.)	a(typ.)	b(typ.)	c(typ.)	d(typ.)
0904	9.50	5.60	5.20	2.54	0.50	5.50	1.00	4.50	10.50	2.54

Schematic:



Electrical Characteristics

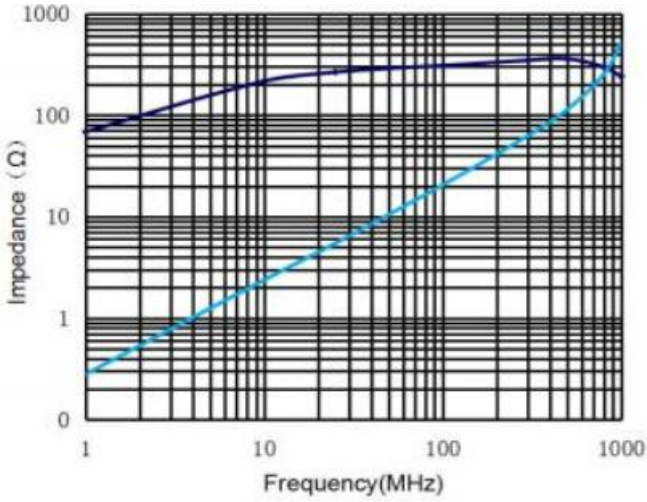
P/N	L (+50%/-30%)	LK Pin(1-4) short (2-3)	Impedance (Ω) min	DCR (mΩ) max.	IDC (mA) max.
TSCM0904-110	11 uH	0.08 uH typ.	160	120	500
TSCM0904-250	25 uH	0.15 uH typ.	450	200	500
TSCM0904-510	51 uH	0.20 uH typ.	800	300	500
TSCM0904-101	100 uH	0.25 uH typ.	600	100	500
TSCM0904-471	470 uH	0.28 uH typ.	1200	280	500
TSCM0904-102	1.0 mH	0.28 uH typ.	1800	300	500
TSCM0904-222	2.2 mH	0.29 uH typ.	3000	400	500
TSCM0904-472	4.7 mH	0.30 uH typ.	5000	700	200

* Test Condition @100KHz / 0.1V, 25°C Ambient

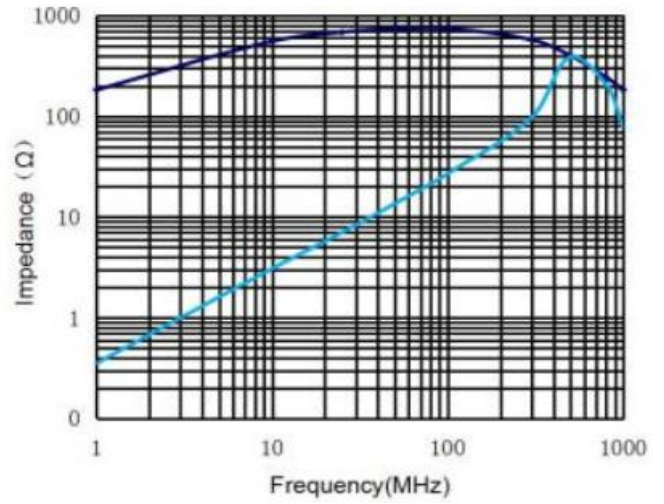
* IDC : This indicates the value of current when the inductance is 10% lower than it's initial value at D.C. superimposition or D.C.current when at ΔT=40°C, whichever is lower. (Ta=20°C)

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CHARACTERISTICS(REFERENCE)

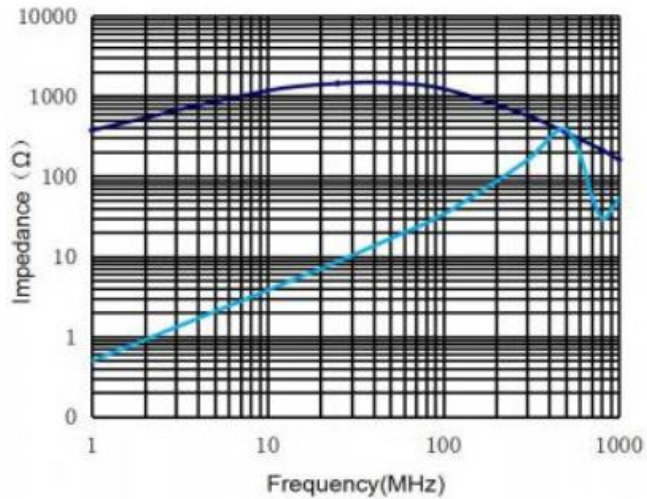
0904-110



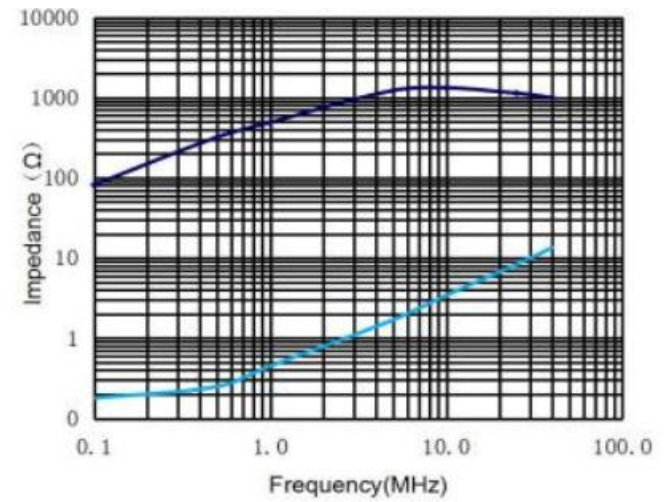
0904-250



0904-510



0904-101

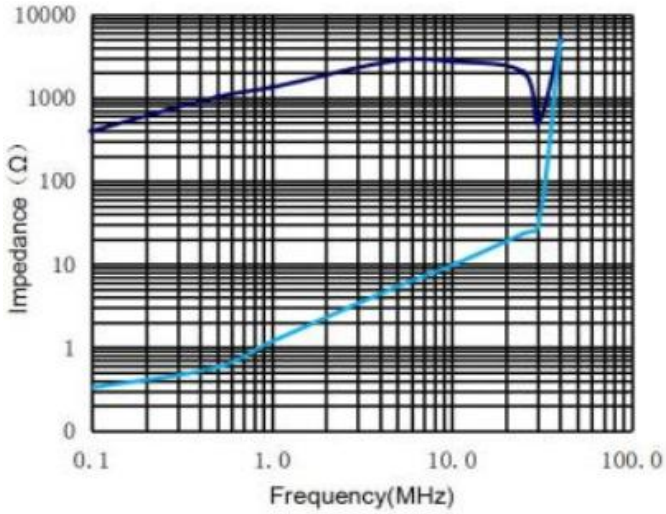


— Common Mode
 — Differential Mode

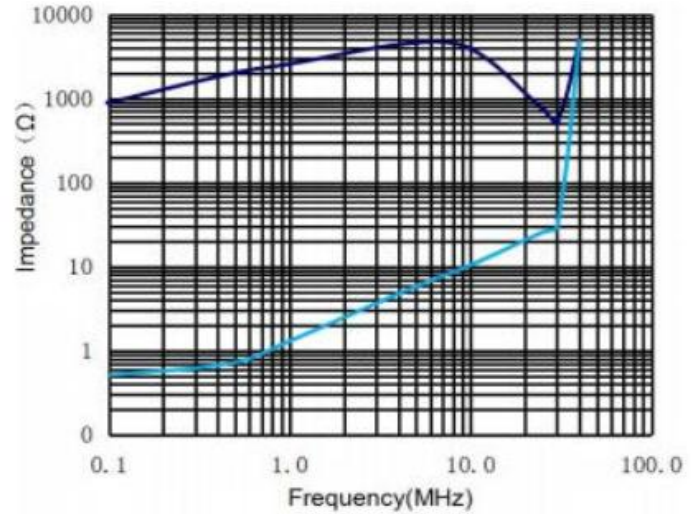


TSCM0904 Series (Rev. 1.0)
CHARACTERISTICS(REFERENCE)

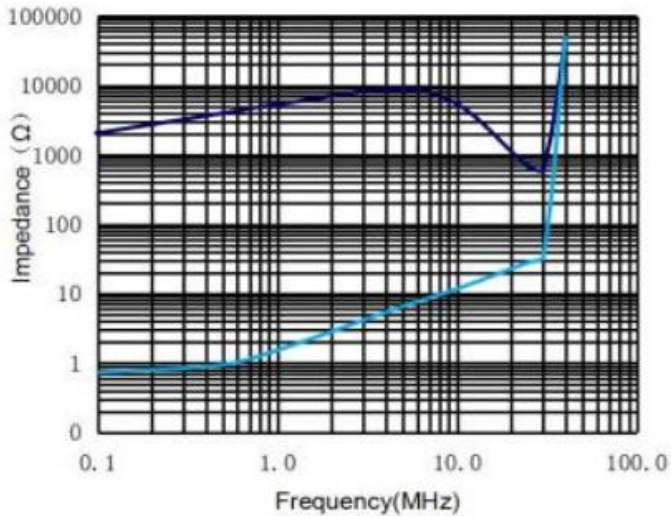
0904-471



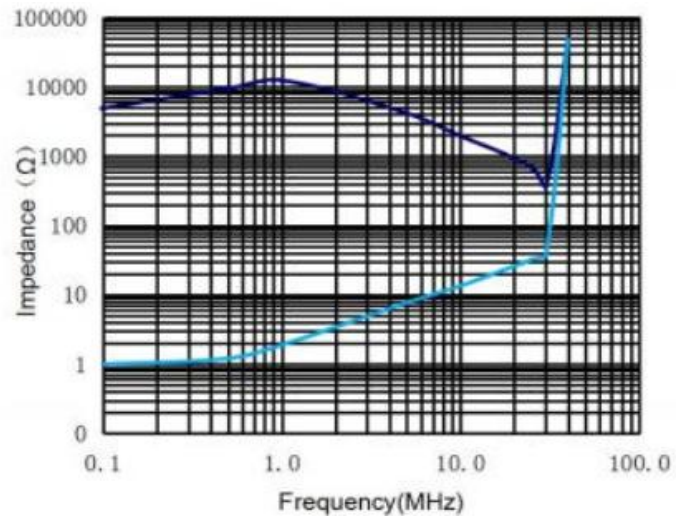
0904-102



0904-222



0904-472



— Common Mode
 — Differential Mode

