

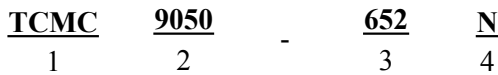
TCMC9050 Series (Rev. 1.0)



Features

- * Common Mode Filter for high Current Capacity
- * Fit for power line & signal line circuit
- * To help you go pass the CE/FCC standard
- * Lower cost

Product Identification



1. Product Code
2. Size Code
3. Inductance: 6.5mH
4. Tolerance: N=±50%

Applications

- * Mobile Device
- * Handheld Device
- * LowProfile Device, LCD.

Operating & Storage Condition

- * Operating Temp :Stand Type:-40 to +85°C
- * Storage Life Time:12 months @25°C, RH 65%
- * Storage Temp : Stand Type -40 to +85°C

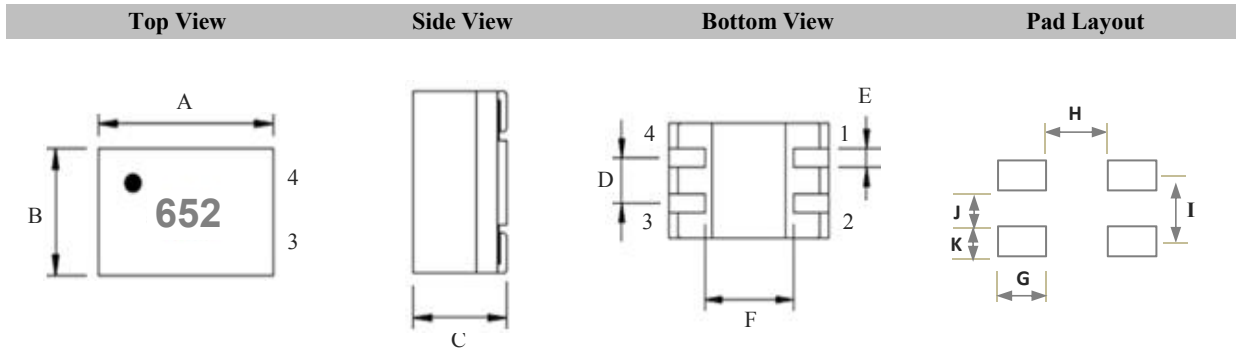
Test Equipment

- * HP4284A,HP42841A-L,IDC,Q,RDC
- * HP8753D NETWORK ANALYZER-SRF

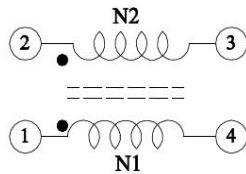
Standard Atmospheric Conditions

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

Dimension & Recommended Pad Layout: [mm]



Schematic:



Size Code	A(±0.3)	B(±0.3)	C(±0.3)	D(±0.2)	E(ref.)	F(ref.)	G(ref.)	H(ref.)	I(ref.)	J(ref.)	K(ref.)
9050	9.2	6.0	5.0	2.5	1.0	5.7	2.0	5.3	2.3	1.1	1.2



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Electrical Characteristics

Part No.	Inductance Pin(1-4) & (2-3)		DCR (mΩ) max.	IDC (A) max.	Impedance (Ω) min.	Freq. Range (MHz)	Insulation Resistance (MΩ) min.	Rated Voltage (V) max.
	(uH)	Test Freq.						
TCMC9050-100	10±50%/30%	1KHz/0.1V	80	1.6	200	20 ~ 300	10	50
TCMC9050-250	25±50%/30%	1KHz/0.1V	160	1.0	600	20 ~ 150	10	50
TCMC9050-400	40 ±50%/30%	1KHz/0.1V	250	0.9	800	20 ~ 100	10	50
TCMC9050-500N	50	1KHz/0.1V	320	0.8	800	20 ~ 100	10	50
TCMC9050-510N	51	1KHz/0.1V	320	0.8	800	20 ~ 100	10	50
TCMC9050-251N	250	100KHz/0.05V	130	1.2	600	3 ~ 20	10	50
TCMC9050-471N	470	100KHz/0.05V	140	1.1	1000	2 ~ 20	10	50
TCMC9050-501N	500	100KHz/0.05V	150	1.0	1000	1 ~ 20	10	50
TCMC9050-102N	1000	100KHz/0.05V	310	0.8	1500	1 ~ 15	10	50
TCMC9050-202N	2000	100KHz/0.05V	420	0.6	3000	1 ~ 5	10	50
TCMC9050-472N	4700	100KHz/0.05V	900	0.4	4000	0.3 ~ 3	10	50
TCMC9050-652N	6500	100KHz/0.05V	1050	0.3	5000	0.3 ~ 2	10	50

* IDC: The actual value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

