

TCMC0906 Series (Rev. 1.0)



Applications

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

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

Operating & Storage Condition

- * Operating Temp :Stand Type:-20 to +80°C
- * Storage Life Time:12 months @25°C, RH 65%
- * Storage Temp : Stand Type -20 to +40°C

Product Identification

<u>TCMC</u>	<u>0906</u>	-	<u>271</u>	<u>I</u>
1	2		3	4

Test Equipment

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

1. Product Code
2. Size Code
3. Inductance: 270uH
4. Tolerance: I=minimum

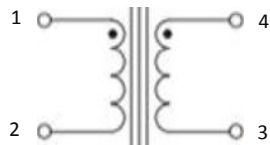
Standard Atmospheric Conditions

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

Dimension & Recommended Pad Layout: [mm]

Top View	Side View	Bottom View	Pad Layout																		
<p>Dot indicates PIN 1.</p>																					
<table border="1"> <thead> <tr> <th>Size Code</th> <th>A(±0.5)</th> <th>B(±0.5)</th> <th>C(max.)</th> <th>D(max.)</th> <th>E(±0.5)</th> <th>F(typ.)</th> <th>G(typ.)</th> <th>H(ref.)</th> </tr> </thead> <tbody> <tr> <td>0906</td> <td>9.0</td> <td>11.4</td> <td>6.0</td> <td>3.2</td> <td>8.9</td> <td>3.6</td> <td>12.6</td> <td>8.0</td> </tr> </tbody> </table>				Size Code	A(±0.5)	B(±0.5)	C(max.)	D(max.)	E(±0.5)	F(typ.)	G(typ.)	H(ref.)	0906	9.0	11.4	6.0	3.2	8.9	3.6	12.6	8.0
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Schematic:



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Electrical Characteristics

Part No.	Inductance Pin(1-2) & (4-3) (uH) min.	DCR Pin(1-2) & (4-3) (mΩ) typ.	Leakage Inductance (uH) typ.	IDC (A) max.
TCMC0906-140I	14	4	0.13	6.0
TCMC0906-250I	25	5	0.22	5.3
TCMC0906-400I	40	8	0.34	4.4
TCMC0906-570I	57	12	0.47	3.6
TCMC0906-101I	100	19	0.80	2.8
TCMC0906-161I	160	29	1.25	2.3
TCMC0906-231I	230	44	1.75	1.8
TCMC0906-271I	270	60	2.00	1.6
TCMC0906-361I	360	84	2.60	1.3
TCMC0906-461I	460	120	3.30	1.1
TCMC0906-571I	570	170	4.00	0.9
TCMC0906-701I	700	230	5.00	0.8
TCMC0906-901I	900	330	6.30	0.6
TCMC0906-102I	1000	440	7.30	0.5
TCMC0906-132I	1300	620	9.00	0.5

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

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

* Tolerance: I=minimum

