

TMDC101008 Series (Rev. 1.0)



Features

- * RoHS compliant
- * Much lower resistance
- * Much higher current rating
- * High performance (Isat) realized by metal dust core

Product Identification

<u>TMDC</u>	<u>101008</u>	—	<u>100</u>	<u>M</u>
1	2		3	4

1. Product Code
2. Size Code
3. Inductance: 10uH
4. Tolerance: M=±20%

Applications

- * Laptops and PCs
- * Switches and servers
- * Base stations
- * DC/DC converters
- * New energy vehicles/ 5G

Operating & Storage Condition

- * Operating Temp. : -40 to +125°C
- * Storage Temp. : -25 to +35°C
- * Storage Life Time : 12 Months @25°C , RH 70%

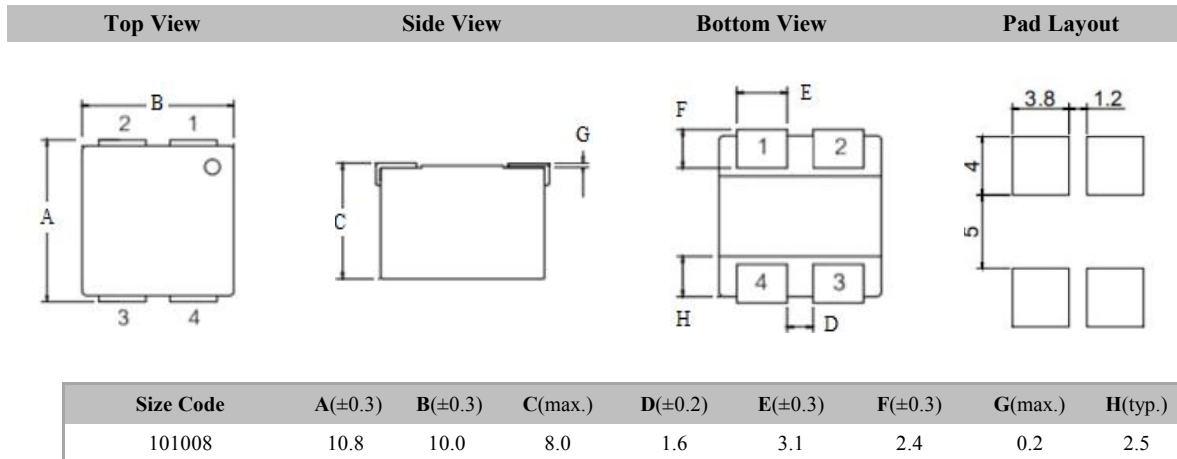
Test Equipment

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

Standard Atmospheric Conditions

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

Dimension & Recommended PAD Layout: [mm]



Electrical Characteristics

P/N	Inductance (uH)	DCR (mΩ) max.	Isat (A) max.	Irms (A) max.
TMDC101008-100M	10.0	37.2	10.6	5.0
TMDC101008-150M	15.0	46.8	9.1	4.6
TMDC101008-220M	22.0	72.0	6.6	3.5
TMDC101008-470M	47.0	108.0	5.4	2.6

- * Test Condition: @100KHz/1.0V (Ambient temperature: 25°C)
- * I_{rms} DC current (A) that will cause an approximate ΔT of 40°C
- * I_{sat} DC current (A) that will cause L to drop approximately 30%

