SPECIFICATION

TMDT20&25 Series (Rev. 5.0)

Features

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

Applications

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

Product Identification

TMDT	252012	_	2R2	M
1	2		3	4

1. Product Code
2. Size Code
3. Inductance: 2.2uH
4. Tolerance: M=±20%

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

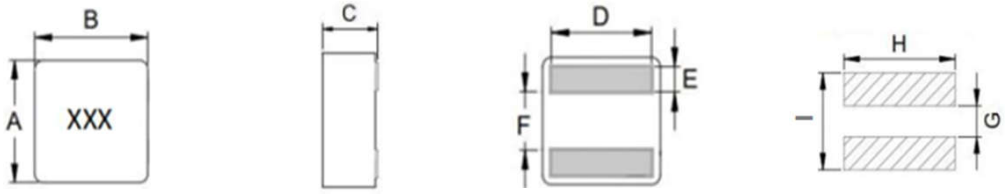
* Wayne kerr 3260B/G LCR Meter
* Wayne kerr 3265B Bias Current Source

Standard Atmospheric Conditions

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

Dimension & Recommended PAD Layout: [mm]

Top View	Side View	Bottom View	Pad Layout



Size Code	A(±0.2)	B(±0.2)	C(max.)	D(typ.)	E(typ.)	F(typ.)	G(ref.)	H(ref.)	I(ref.)
201610	2.0	1.6	1.0	1.6	0.7	0.6	0.5	1.8	2.2
252010	2.5	2.0	1.0	2.0	0.9	0.7	0.6	2.1	2.6
252012	2.5	2.0	1.2	2.0	0.9	0.7	0.6	2.1	2.6

Electrical Characteristics

P/N	Inductance (uH) @1MHz/1.0V	DCR (mΩ) max.	Isat (A) max.	Irms (A) max.
TMDT201610-R47M	0.47	25.0	6.0	6.0
TMDT201610-1R0M	1.00	43.0	4.2	4.1
TMDT201610-2R2M	2.20	150.0	2.8	2.1
TMDT252010-1R0M	1.00	30.0	4.8	4.1
TMDT252012-1R0M	1.00	42.0	4.3	3.3
TMDT252012-2R2M	2.20	75.0	3.3	2.2

* Irms DC current (A) that will cause an approximate ΔT of 40°C
* Isat DC current (A) that will cause L to drop approximately 30%