TMDT20&25&32&35 Series (Rev. 6.0)

Features

* RoHS compliant
* Low loss alloy powder die casing,low resistance
* Strong antielectromagnetic interference, ultra low buzzer
* Large current,in high frequency and high temperature environment to maintain excellent current characteristics.

Applications

* Laptops and PCs
* Switchs and servers
* Smart home
* Security and mobile phone
* Energy products

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

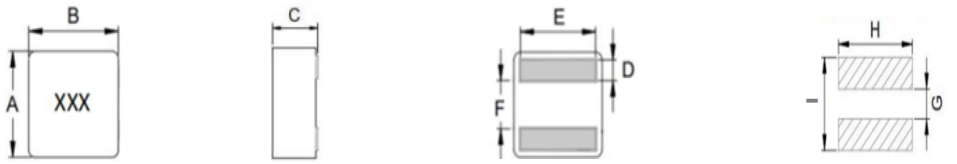
* Wayne kerr 3260B/G LCR Meter
* Wayne kerr 3265B Bias Current Source

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	0.6	1.5	0.6	0.5	1.8	2.4
252010	2.5	2.0	1.0	0.8	1.9	0.7	0.6	2.2	3.1
252012	2.5	2.0	1.2	0.8	1.9	0.7	0.6	2.2	3.1
322512	3.2	2.5	1.2	0.8	2.4	0.8	0.7	2.9	3.6
353220	3.5	3.2	2.0	0.7	3.1	0.8	0.7	3.5	3.8

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Electrical Characteristics

Part Number	Inductance (uH) @1MHz/1.0V	DCR (mΩ) max.	Isat (A) typ.	Irms (A) typ.
TMDT201610-R24M	0.24	12.0	7.8	5.9
TMDT201610-R33M	0.33	19.0	7.6	5.7
TMDT201610-R47M	0.47	21.0	6.0	5.4
TMDT201610-R68M	0.68	35.0	5.1	4.8
TMDT201610-1R0M	1.00	42.0	4.5	4.6
TMDT201610-1R5M	1.50	68.0	3.5	3.6
TMDT201610-2R2M	2.20	110.0	3.0	2.7
TMDT201610-3R3M	3.30	216.0	2.2	1.8
TMDT201610-4R7M	4.70	280.0	2.0	1.4
TMDT252010-R22M	0.22	10.0	9.0	8.4
TMDT252010-R24M	0.24	11.0	8.8	8.1
TMDT252010-R33M	0.33	16.0	8.5	7.5
TMDT252010-R47M	0.47	20.0	7.0	5.0
TMDT252010-R68M	0.68	28.0	6.0	4.8
TMDT252010-1R0M	1.00	30.0	5.4	4.7
TMDT252010-1R5M	1.50	42.0	4.0	4.1
TMDT252010-2R2M	2.20	65.0	3.5	3.3
TMDT252010-3R3M	3.30	126.0	2.7	2.1
TMDT252010-4R7M	4.70	256.0	2.3	1.4
TMDT252010-6R8M	6.80	290.0	2.1	1.3
TMDT252010-100M	10.00	450.0	1.5	1.2
TMDT252012-R24M	0.24	19.0	9.0	6.4
TMDT252012-R33M	0.33	19.0	7.5	6.4
TMDT252012-R47M	0.47	24.0	6.5	4.7
TMDT252012-R68M	0.68	30.0	5.3	4.5
TMDT252012-1R0M	1.00	36.0	4.8	4.1
TMDT252012-1R5M	1.50	53.0	4.2	3.7
TMDT252012-2R2M	2.20	84.0	3.5	2.7
TMDT252012-3R3M	3.30	120.0	2.5	2.0
TMDT252012-4R7M	4.70	167.0	2.4	1.8
TMDT252012-6R8M	6.80	269.0	1.9	1.6
TMDT252012-100M	10.00	360.0	1.7	1.4
TMDT322512-R47M	0.47	19.0	8.2	7.0
TMDT322512-1R0M	1.00	30.0	6.5	5.5
TMDT322512-1R5M	1.50	44.0	5.0	4.5
TMDT322512-2R2M	2.20	73.0	4.0	3.6
TMDT322512-3R3M	3.30	88.0	3.6	3.3
TMDT322512-4R7M	4.70	130.0	3.0	3.0
TMDT322512-6R8M	6.80	207.0	2.8	1.6
TMDT322512-100M	10.00	288.0	1.9	1.0
TMDT353220-R47M	0.47	15.0	11.0	8.5
TMDT353220-1R0M	1.00	24.0	7.5	7.0
TMDT353220-1R5M	1.50	33.0	7.1	5.5
TMDT353220-2R2M	2.20	40.0	6.0	5.0
TMDT353220-3R3M	3.30	64.0	5.5	4.0
TMDT353220-4R7M	4.70	80.0	4.2	3.5
TMDT353220-6R8M	6.80	174.0	3.3	2.9
TMDT353220-100M	10.00	200.0	3.0	2.6

* 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%
* Tolerance：M= ±20%