Molding Power Inductors -MTH Series

INCMCOIL
欣腾辉电子
XINTENGHUI ELECTRONICS

MTH Series

Description:

·RoHS,Halogen Free and REACH Compliance

·High Efficency

·Powder iron core material

·Low profile and miniature size

·Magnetically shielded, low EMI

Applications:

·Smatr modules

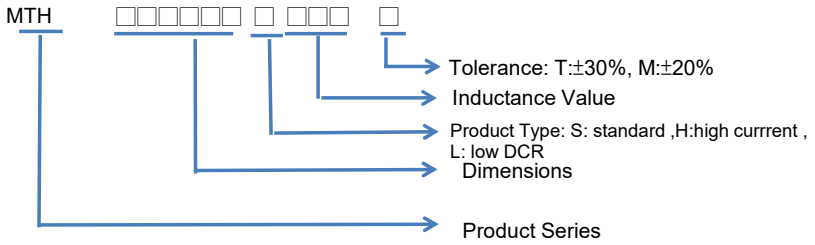
·SSD modules

·Notebook regulators

·Battery power systems

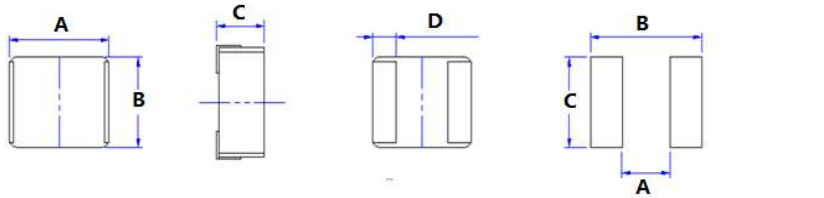
·DC/DC converters

Product Identification



Dimensions-mm

Top View | Side View | Bottom View | Recommended Pad Layout



Dimensions-mm

TYPE	A	B	C	D
252010	2.5±0.2	2.0±0.2	1.0Max	0.6±0.2

Dimensions-mm

TYPE	A	B	C
252010	1.0	2.8	2.0

·No Marking

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Electrical Characteristics

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms(A) Max.(Typ)	Isat(A) Max.(Typ)	RDC(mΩ) Max.(Typ)
MTH252010HR22M	0.22	20	1MHz,0.1V	6.5(6.8)	7.9(8.6)	17(12)
MTH252010HR24M	0.24	20	1MHz,0.1V	6.4(6.7)	7.8(8.5)	17.5(12)
MTH252010HR33M	0.33	20	1MHz,0.1V	4.8(5.6)	6.8(7.6)	21(16)
MTH252010HR47M	0.47	20	1MHz,0.1V	4.4(5.2)	6.0(6.6)	27(20)
MTH252010HR68M	0.68	20	1MHz,0.1V	3.5(4.1)	5.0(5.5)	37(31)
MTH252010HR82M	0.82	20	1MHz,0.1V	3.3(3.9)	4.5(5.0)	40(33)
MTH252010H1R0M	1.0	20	1MHz,0.1V	3.1(3.6)	4.1(4.6)	48(40)
MTH252010H1R5M	1.5	20	1MHz,0.1V	2.5(2.9)	3.4(3.8)	72(60)
MTH252010H2R2M	2.2	20	1MHz,0.1V	2.3(2.5)	3.1(3.5)	97(85)
MTH252010H3R3M	3.3	20	1MHz,0.1V	1.6(1.9)	2.2(2.5)	170(140)
MTH252010H4R7M	4.7	20	1MHz,0.1V	1.4(1.6)	1.9(2.2)	240(200)
MTH252010H6R8M	6.8	20	1MHz,0.1V	1.1(1.3)	1.4(1.6)	420(350)
MTH252010H8R2M	8.2	20	1MHz,0.1V	1.0(1.2)	1.35(1.55)	520(430)
MTH252010H100M	10.0	20	1MHz,0.1V	0.95(1.0)	1.3(1.5)	600(500)
MTH252010H220M	22.0	20	1MHz,0.1V	0.60(0.85)	0.9(1.1)	1300(1100)

Notes:

1.All test data is referenced to 25℃ ambient.
2.Operating temperature range -55℃ to +155℃ (Including self - temperature rise)
3.Irms(A):DC current(A) that will cause an approximate ΔT of 40°C
(reference ambient temperature is 25℃)
4.Isat(A):DC current(A) that will cause L0 to drop approximately 30%.
5. Measure Equipment：
L：Wayne kerr 3260B/G LCR Meter (or equivalent), 1MHz 0.1V
RDC：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Wayne kerr 3265B Bias Current Source (or equivalent)
Irms：Wayne kerr 3265B Bias Current Source (or equivalent)
6.Test Condition:
Temperature:26±3℃
Humidity:<70% RH
Frequency:1MHz 0.1V
7. Absolute maximum voltage 20VDC

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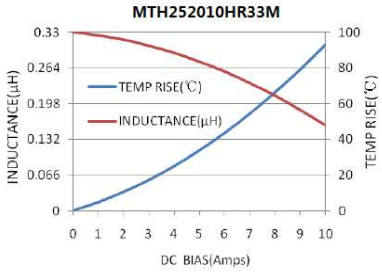
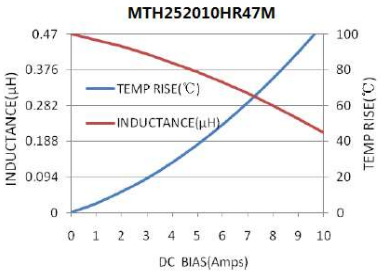
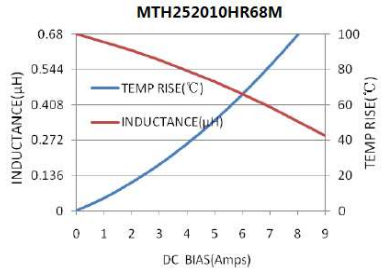
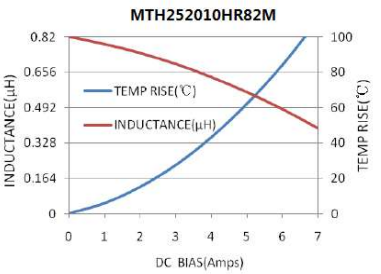
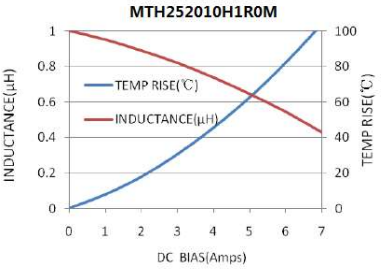
Curve:

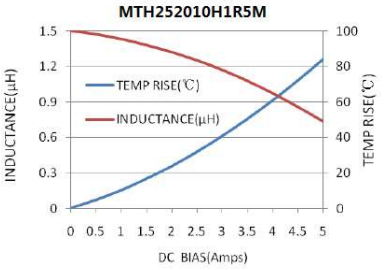


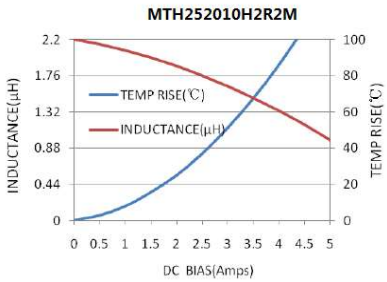


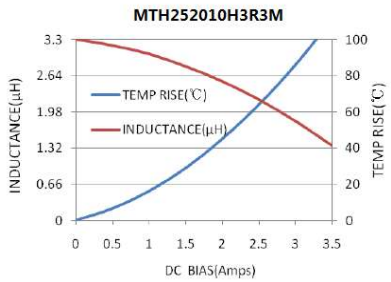


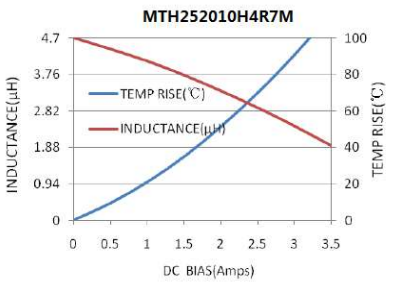


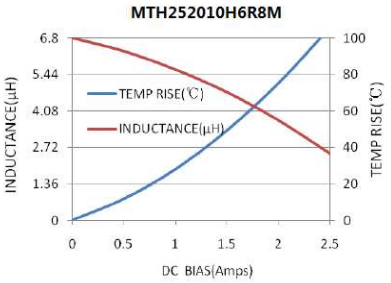


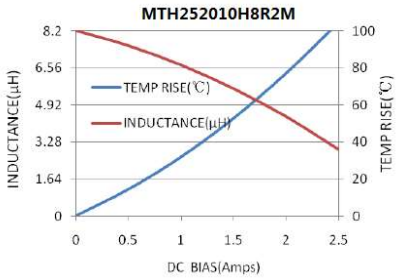


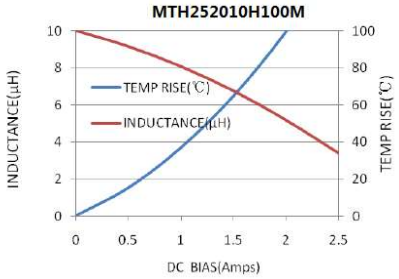












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Packaging:

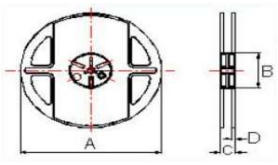
Packaging -Cover Tape

The force for tearing off cover tape is 10 to 130 grams in the arrow direction.

Packaging Quantity

TYPE	PCS/REEL
MTH252010	3000

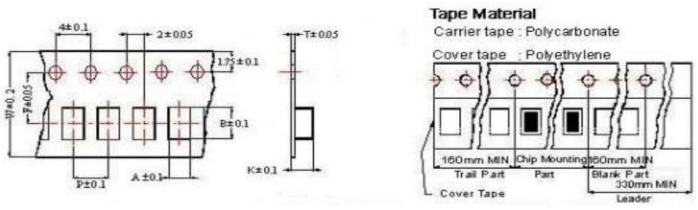
Reel Dimensions



Reel Dimensions:mm

TYPE	A	B	C	D
MTH252010	178	60	12	1.5

Tape Dimensions in mm



TYPE	A	B	T	W	P	F	K
MTH252010	2.25	2.8	0.22	8	4	3.5	1.15