

Molding Power Inductors -MTH Series

Electrical Characteristics

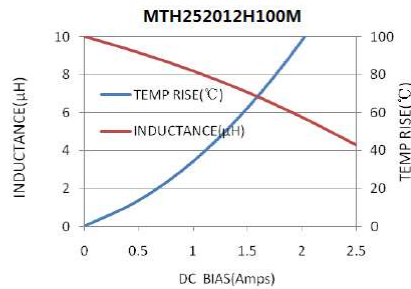
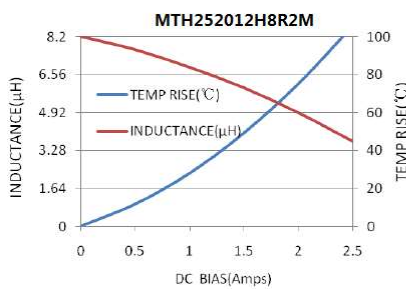
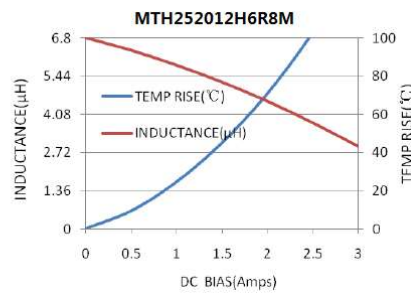
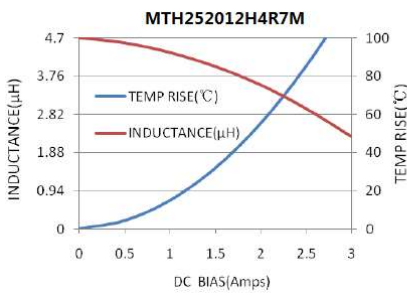
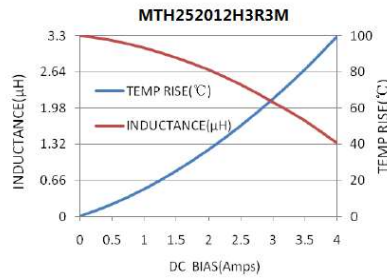
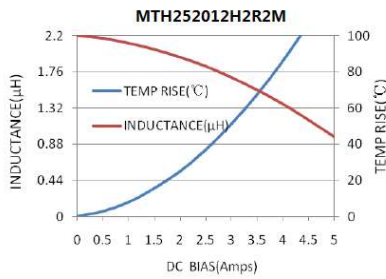
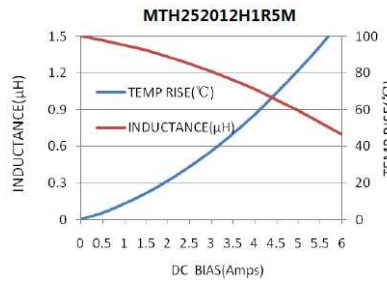
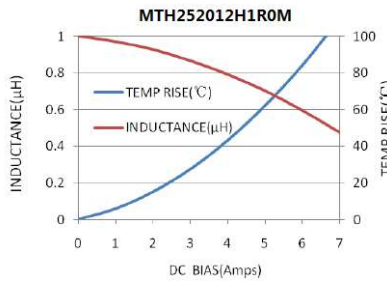
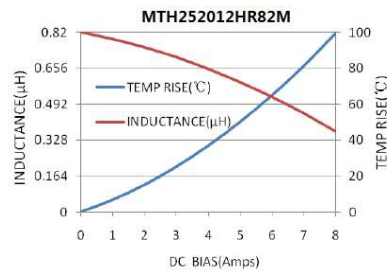
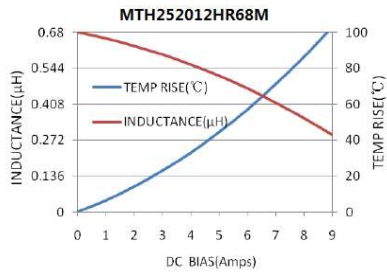
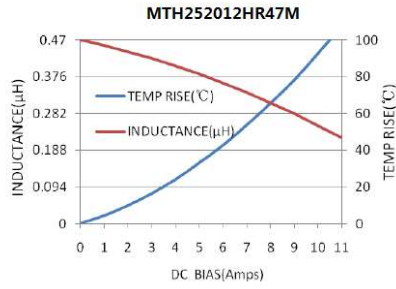
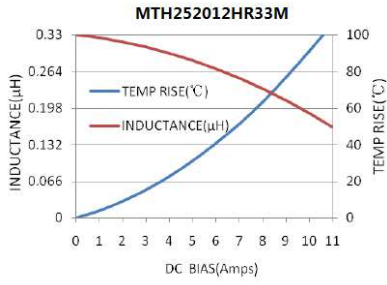
Part No.	Inductance (μ H)	Tolerance (\pm %)	Test Freq.	I _{rms} (A) Max.(Typ)	I _{sat} (A) Max.(Typ)	RDC(m Ω) Max.(Typ)
MTH252012HR10M	0.10	20	1MHz,0.1V	10.5(12)	12.5(13.5)	10(6.0)
MTH252012HR15M	0.15	20	1MHz,0.1V	10.0(11.5)	12(13)	11(7.0)
MTH252012HR22M	0.22	20	1MHz,0.1V	5.1(6.0)	7.6(8.2)	9.0(9.5)
MTH252012HR24M	0.24	20	1MHz,0.1V	5.1(6.0)	5.1(6.0)	5.1(6.0)
MTH252012HR33M	0.33	20	1MHz,0.1V	5.1(6.0)	7.6(8.5)	19(14)
MTH252012HR47M	0.47	20	1MHz,0.1V	4.9(5.8)	6.7(7.4)	23(17)
MTH252012HR68M	0.68	20	1MHz,0.1V	3.9(4.6)	5.4(6.0)	31(25)
MTH252012HR82M	0.82	20	1MHz,0.1V	3.6(4.2)	4.9(5.4)	35(29)
MTH252012H1R0M	1.0	20	1MHz,0.1V	3.3(3.9)	4.7(5.3)	40(33)
MTH252012H1R5M	1.5	20	1MHz,0.1V	2.7(3.2)	3.8(4.3)	58(48)
MTH252012H2R2M	2.2	20	1MHz,0.1V	2.3(2.7)	3.3(3.6)	82(68)
MTH252012H3R3M	3.3	20	1MHz,0.1V	1.8(2.1)	2.5(2.8)	135(110)
MTH252012H4R7M	4.7	20	1MHz,0.1V	1.5(1.8)	2.1(2.4)	190(160)
MTH252012H6R8M	6.8	20	1MHz,0.1V	1.2(1.4)	1.7(1.9)	330(270)
MTH252012H8R2M	8.2	20	1MHz,0.1V	1.1(1.3)	1.5(1.7)	410(340)
MTH252012H100M	10.0	20	1MHz,0.1V	0.95(1.1)	1.4(1.6)	480(400)

Notes:

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

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Curve:

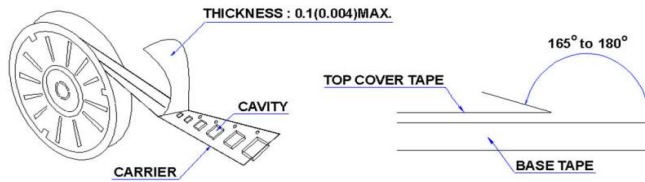


Molding Power Inductors -MTH Series

Packaging:

Packaging -Cover Tape

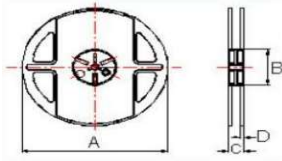
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



Packaging Quantity

TYPE	PCS/REEL
MTH252012	3000

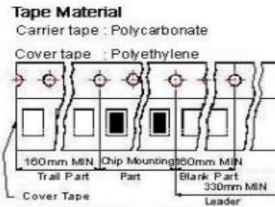
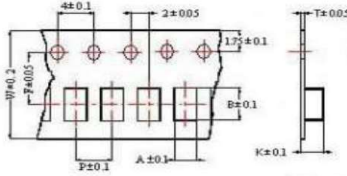
Reel Dimensions



Reel Dimensions:mm

TYPE	A	B	C	D
MTH252012	178	60	12	1.5

Tape Dimensions in mm



TYPE	A	B	T	W	P	F	K
MTH252012	2.25	2.8	0.22	8	4	3.5	1.15