

Molding Power Inductors -MTH Series

Electrical Characteristics

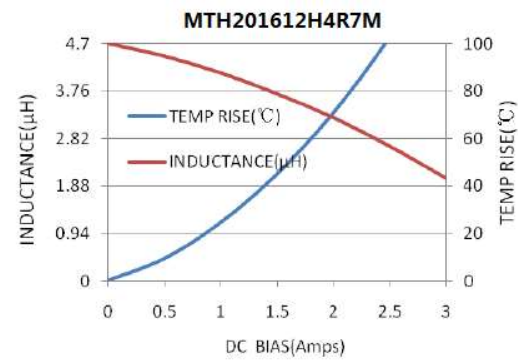
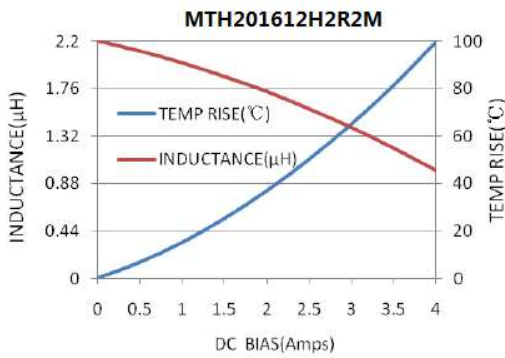
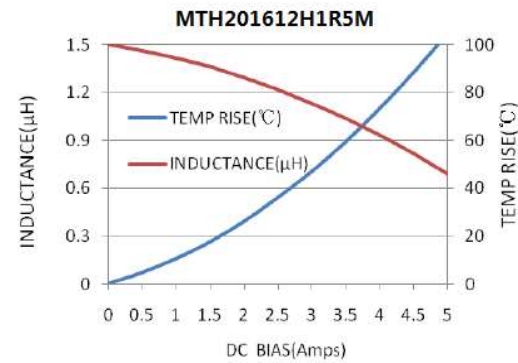
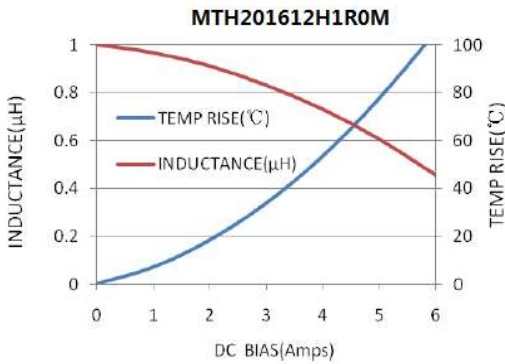
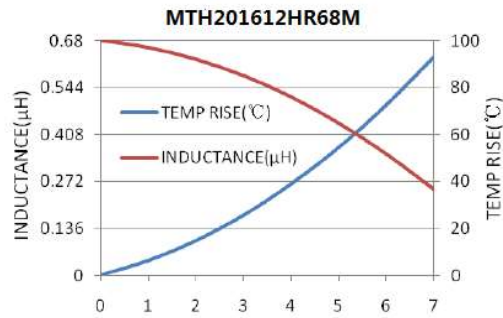
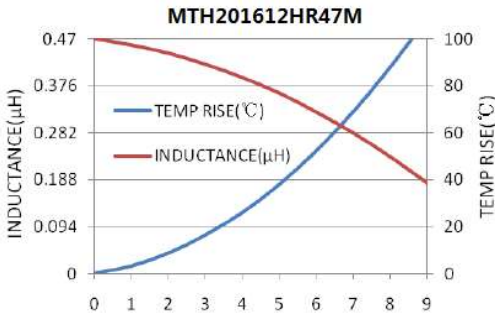
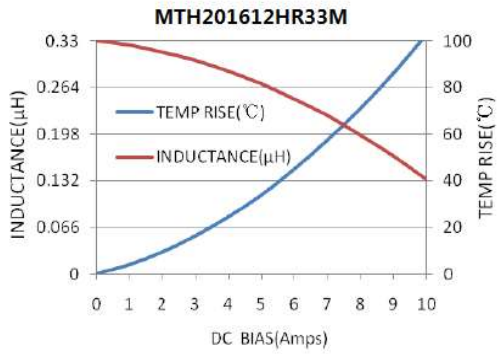
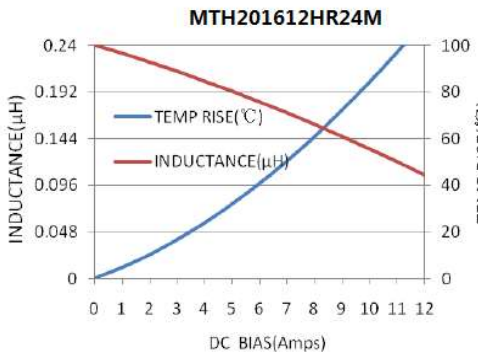
Part No.	Inductance (μ H)	Tolerance (\pm %)	Test Freq.	I _{rms} (A) Max.(Typ)	I _{sat} (A) Max.(Typ)	RDC(m Ω) Max.(Typ)
MTH201612HR24M	0.24	20	1MHz,0.25V	5.0(6.0)	6.6(7.8)	19(13)
MTH201612HR33M	0.33	20	1MHz,0.25V	4.8(5.7)	6.3(7.0)	21(15)
MTH201612HR47M	0.47	20	1MHz,0.25V	4.5(5.0)	5.5(6.1)	26(20)
MTH201612HR68M	0.68	20	1MHz,0.25V	3.5(4.1)	4.3(4.8)	33(27)
MTH201612H1R0M	1.0	20	1MHz,0.25V	2.9(3.4)	4.0(4.4)	48(40)
MTH201612H1R5M	1.5	20	1MHz,0.25V	2.3(2.7)	3.2(3.6)	72(60)
MTH201612H2R2M	2.2	20	1MHz,0.25V	1.8(2.1)	2.4(2.7)	116(97)
MTH201612H4R7M	4.7	20	1MHz,0.25V	1.2(1.4)	1.8(2.0)	252(210)

Notes:

- 1.All test data is referenced to 25°C ambient.
- 2.Operating temperature range -55°C to +155°C (Including self - temperature rise)
- 3.I_{rms}(A):DC current(A) that will cause an approximate ΔT of 40°C (reference ambient temperature is 25°C)
- 4.I_{sat}(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 0.25V
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)
- 6.Test Condition:
Temperature:26 \pm 3°C
Humidity:<70% RH
Frequency:1MHz 0.25V
7. Absolute maximum voltage 20VDC

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Curve:

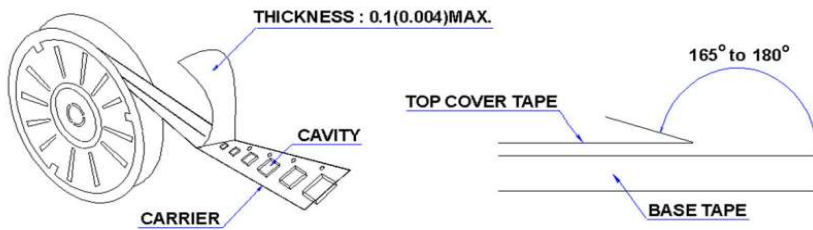


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Packaging:

Packaging -Cover Tape

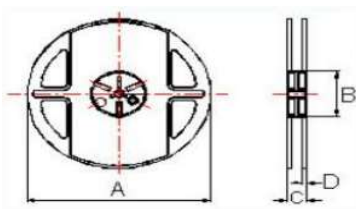
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



Packaging Quantity

TYPE	PCS/REEL
MTH201612	3000

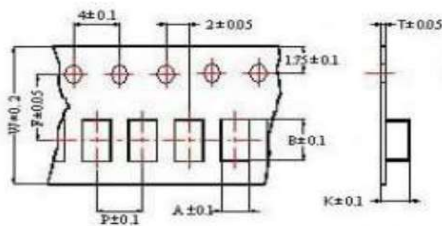
Reel Dimensions



Reel Dimensions:mm

TYPE	A	B	C	D
MTH201612	178	60	12	1.5

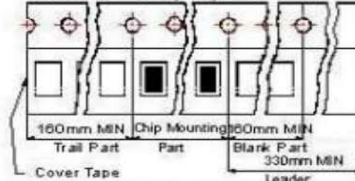
Tape Dimensions in mm



Tape Material

Carrier tape : Polycarbonate

Cover tape : Polyethylene



TYPE	A	B	T	W	P	F	K
MTH201612	1.8	2.2	0.22	8	4	3.5	1.15