

## Molding Power Inductors -MTH Series

### MTH Series



欣腾辉电子  
XINTENGHUI ELECTRONICS

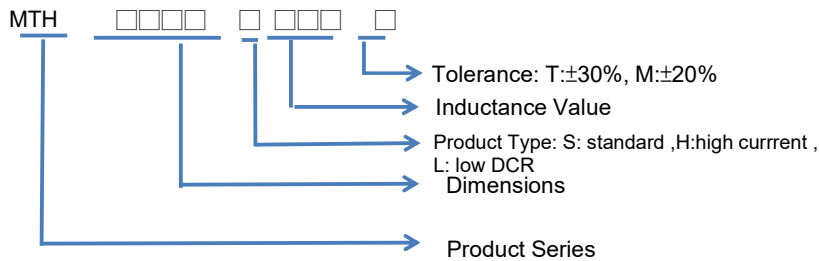
#### Description:

- RoHS, Halogen Free and REACH Compliance
- High current carrying capacity, Low core losses
- Powder iron core material
- Frequency range up to 5MHz.
- Magnetically shielded, low EMI

#### Applications:

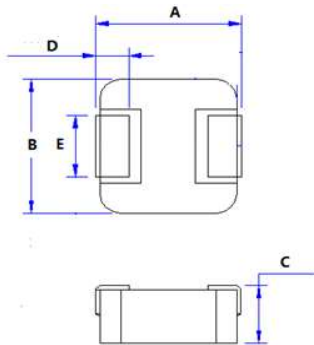
- Switches and servers
- SSD modules
- Notebook regulators
- Battery power systems
- DC/DC converters

#### Product Identification

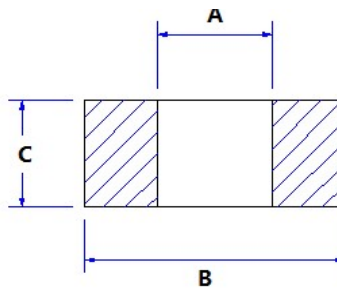


#### Dimensions-mm

Shape and Dimensions



Recommended Pad Layout



#### Dimensions-mm

TYPE	A	B	C	D	E
0630	7.0 $\pm$ 0.3	6.6 $\pm$ 0.2	2.8 $\pm$ 0.2	1.6 $\pm$ 0.3	3.0 $\pm$ 0.3

#### Dimensions-mm

TYPE	A	B	C
0630	3.7	8.4	3.5

## Molding Power Inductors -MTH Series

### Electrical Characteristics

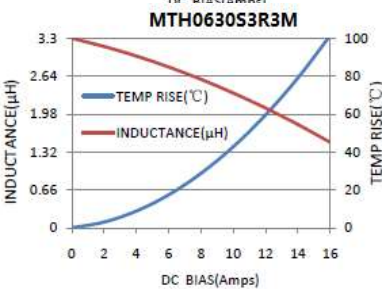
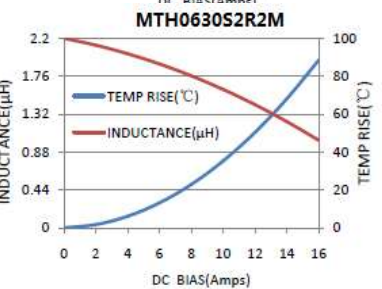
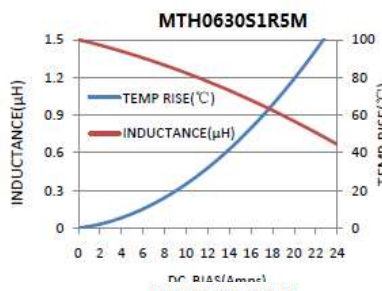
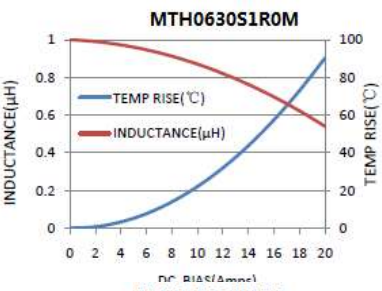
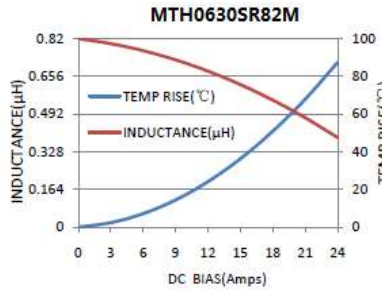
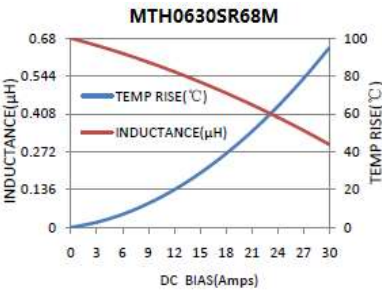
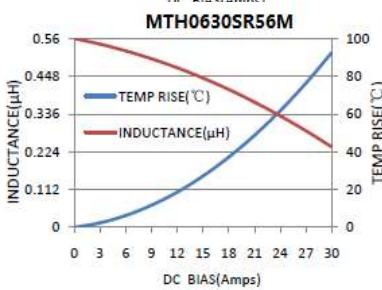
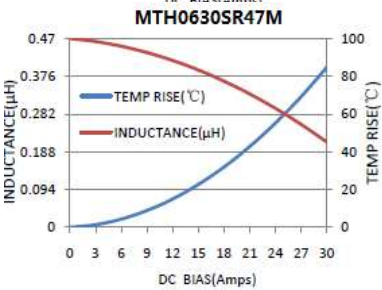
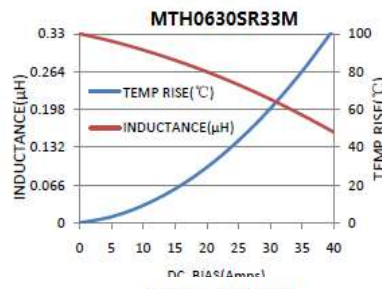
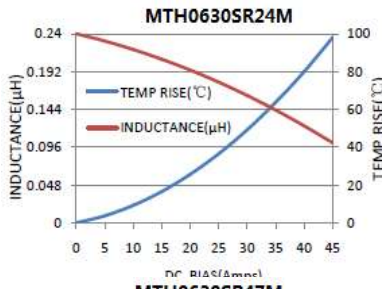
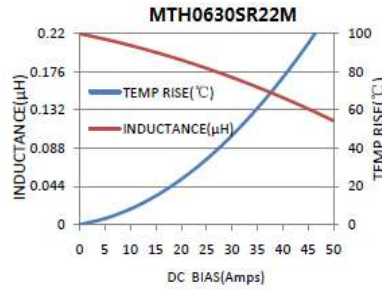
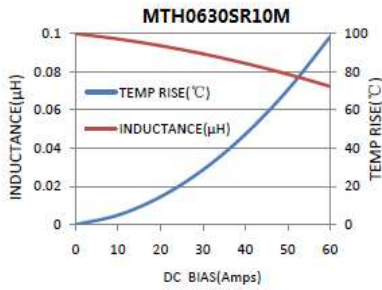
Part No.	Inductance ( $\mu$ H)	Tolerance ( $\pm$ %)	Test Freq.	RDC(m $\Omega$ ) Max.(Typ)	Irms(A) Typ.	Isat(A) Typ.
MTH0630SR10M	0.10	20	100KHZ,1V	1.2(0.9)	32.0	56.0
MTH0630SR22M	0.22	20	100KHZ,1V	3.0(2.5)	24.0	34.0
MTH0630SR24M	0.24	20	100KHZ,1V	3.1(2.6)	23.0	26.0
MTH0630SR33M	0.33	20	100KHZ,1V	3.5(3.0)	21.0	25.0
MTH0630SR47M	0.47	20	100KHZ,1V	4.1(3.5)	18.0	20.0
MTH0630SR56M	0.56	20	100KHZ,1V	4.5(3.9)	16.5	18.0
MTH0630SR68M	0.68	20	100KHZ,1V	5.3(4.8)	16.0	17.0
MTH0630SR82M	0.82	20	100KHZ,1V	6.0(5.4)	14.0	16.0
MTH0630S1R0M	1.0	20	100KHZ,1V	7.4(6.7)	12.0	15
MTH0630S1R5M	1.5	20	100KHZ,1V	12.1(10.6)	12.0	14.0
MTH0630S2R2M	2.2	20	100KHZ,1V	15.0(13.5)	9.5	10.0
MTH0630S3R3M	3.3	20	100KHZ,1V	22.0(18.0)	8.5	9.5
MTH0630S4R7M	4.7	20	100KHZ,1V	33.0(28.0)	6.0	6.5
MTH0630S5R6M	5.6	20	100KHZ,1V	42.0(37.0)	5.0	6.0
MTH0630S6R8M	6.8	20	100KHZ,1V	48.0(42.5)	5.0	6.0
MTH0630S8R2M	8.2	20	100KHZ,1V	60.0(54.0)	5.0	6.0
MTH0630S100M	10.0	20	100KHZ,1V	67.0(62.0)	4.5	5.5
MTH0630S150M	15.0	20	100KHZ,1V	115.0(104.0)	3.0	4.5
MTH0630S220M	22.0	20	100KHZ,1V	200.0(180.0)	2.3	3.0
MTH0630S330M	33.0	20	100KHZ,1V	310.0(280.0)	2.0	2.5

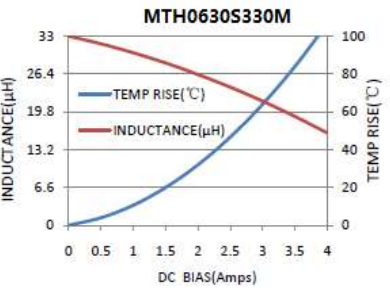
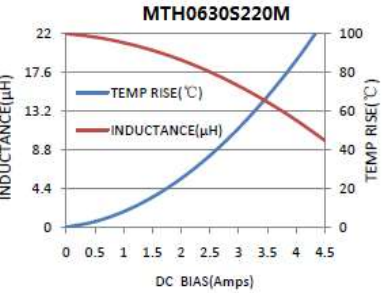
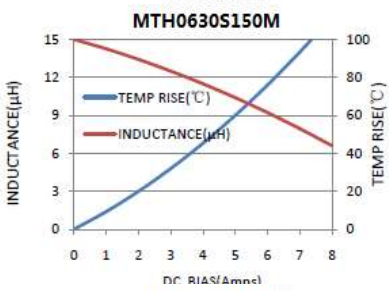
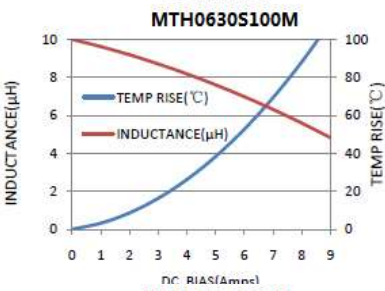
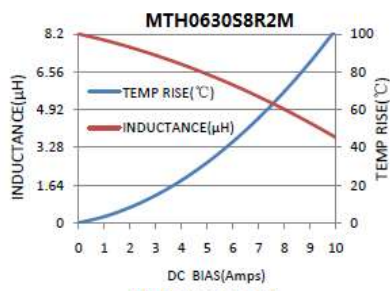
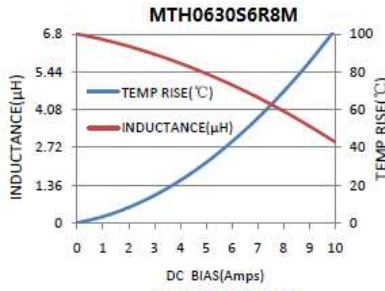
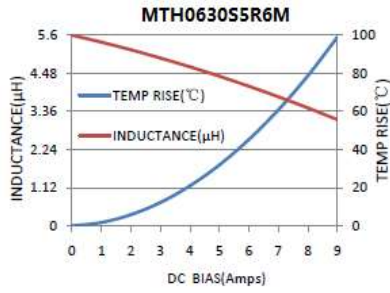
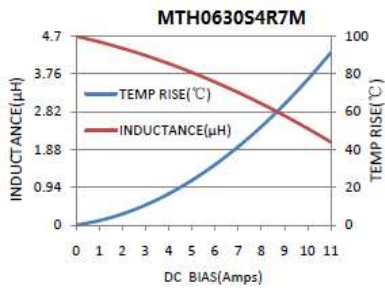
#### Notes:

- All test data is referenced to 25°C ambient.
- Operating temperature range -55°C to +125°C (Including self - temperature rise)
- Irms(A):DC current(A) that will cause an approximate  $\Delta T$  of 40°C (reference ambient temperature is 25°C)
- Isat(A):DC current(A) that will cause L0 to drop approximately 30%.
- Measure Equipment :  
L : Wayne kerr 3260B/G LCR Meter (or equivalent), 100KHz 1.0V  
RDC : CHEN HWA502BC/HP4338B (or equivalent)  
Isat : Wayne kerr 3265B Bias Current Source (or equivalent)  
Irms : Wayne kerr 3265B Bias Current Source (or equivalent)
- Test Condition:  
Temperature:26 $\pm$ 3°C  
Humidity:<70% RH  
Frequency:100KHz 1.0V
- Absolute maximum voltage 50VDC

## Molding Power Inductors -MTH Series

Curve:





## Molding Power Inductors -MTH Series

### Packaging:

Packaging -Cover Tape

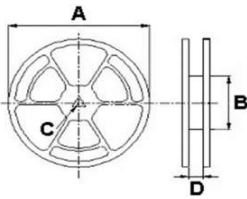
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



### Packaging Quantity

TYPE	PCS/REEL
MTH0630	1500

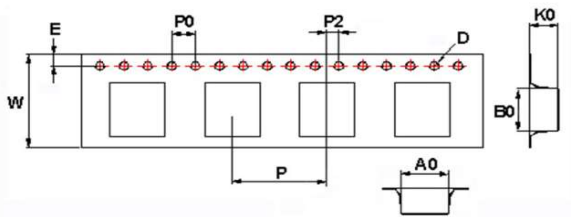
### Reel Dimensions



### Reel Dimensions:mm

TYPE	A	B	C	D
MTH0630	330	100	13	16

### Tape Dimensions in mm



TYPE	A0	B0	K0	D	E	W	P	P0	P2
MTH0630	6.9	7.6	3.4	1.55	1.75	16	12	4	2