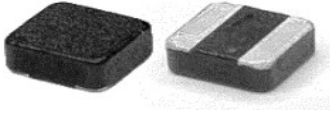


## Molding Power Inductors -MTP Series



### MTP Series



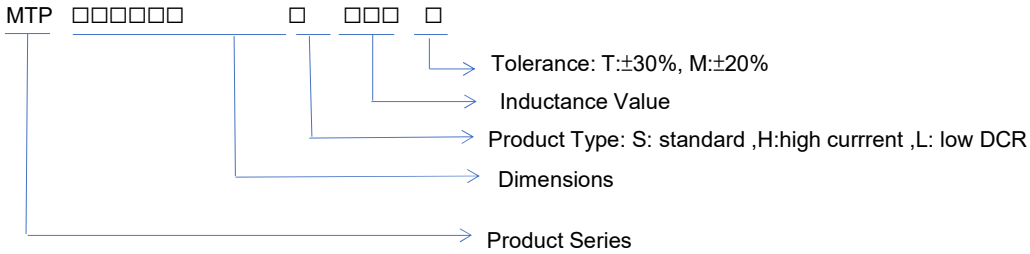
#### Description:

- High performance (Isat) realized by metal dust core.
- Low profile : 3.2mm x 2.5mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- Magnetically shielded, low EMI

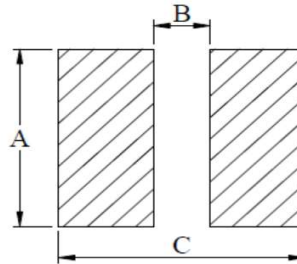
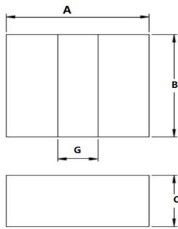
#### Applications:

- .DC/DC converter for CPU in Notebook PC
- .Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- .Thin type on-board power supply module for exchanger
- .VRM for server

#### Product Identification



#### Dimensions-mm



#### Dimensions-mm

TYPE	A	B	C	G
322512	3.2±0.15	2.5±0.15	1.2Max	1.25yp.

#### Dimensions-mm

TYPE	A	B	C
322512	2.6	1.25	3.3

- No Marking

## Molding Power Inductors -MTP Series

### Electrical Characteristics

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms(A) Max.(Typ)	Isat(A) Max.(Typ)	RDC(mΩ) Max.(Typ)
MTP322512HR68MI	0.68	20	1MHz,1V	6.0(6.6)	6.0(6.6)	13(10.5)
MTP322512HR68MIT	0.68	20	1MHz,1V	6.0(6.6)	6.0(6.6)	13(10.5)
MTP322512HR68M	0.68	20	1MHz,1V	5.8(6.4)	4.2(4.6)	11.5(9.0)
MTP322512HR47M	0.47	20	1MHz,1V	5.6(6.2)	6.3(7.0)	10(8.0)

#### 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), 1MHz 1V  
 RDC : CHEN HWA502BC/HP4338B (or equivalent)  
 Isat : Wayne kerr 3265B Bias Current Source (or equivalent)  
 Irms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)
- Test Condition:  
 Temperature:26±3°C  
 Humidity:<70% RH  
 Frequency:1MHz 1V

## Molding Power Inductors -MTP Series

### Curve:

