

Molding Power Inductors -MSH Series



MSH Series



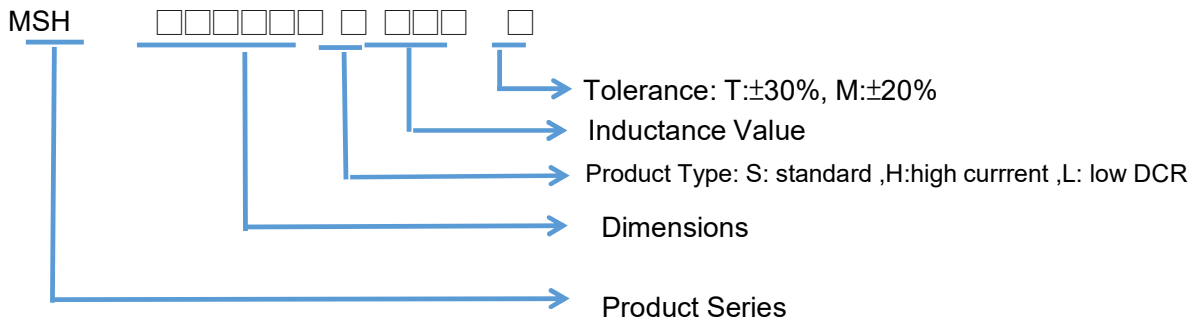
Description:

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Low profile and miniature size
- Magnetically shielded, low EMI

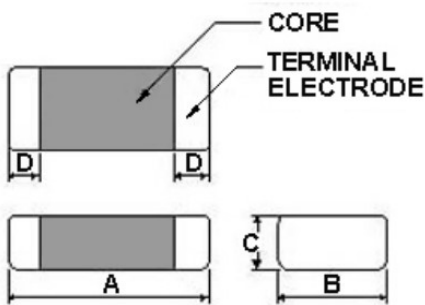
Applications:

- Smatr modules, Smartphones.
- SSD modules
- Notebook regulators
- DC/DC converters

Product Identification



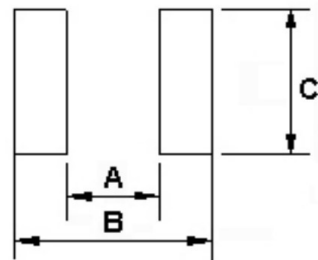
Dimensions-mm



Dimensions-mm

TYPE	A	B	C	D
322512	3.2±0.3	2.5±0.3	1.2Max	0.5±0.3

Recommended Pad Layout



Dimensions-mm

TYPE	A	B	C
322512	1.7	3.5	2.8

- No Marking

Molding Power Inductors -MSH Series

Electrical Characteristics

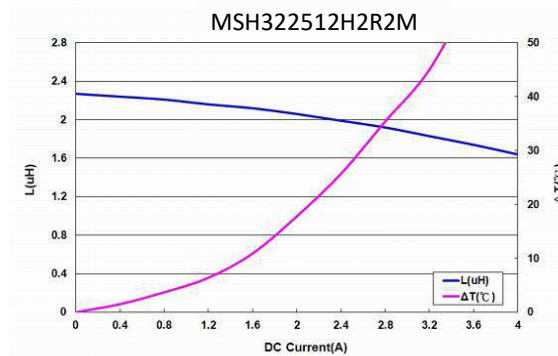
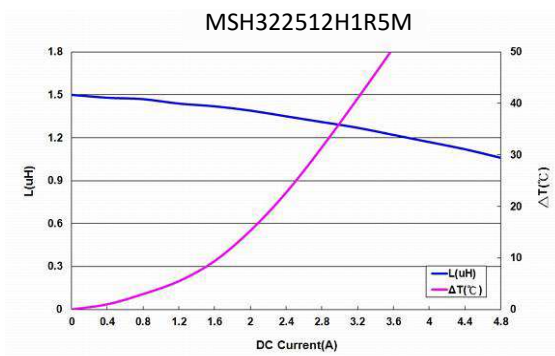
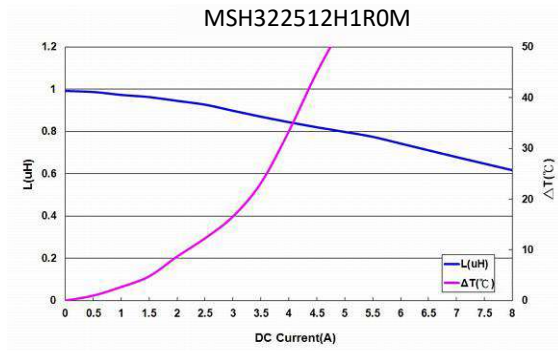
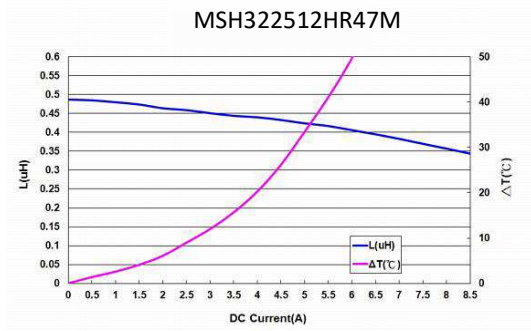
Part No.	Inductance (μH)	Tolerance ($\pm\%$)	Test Freq.	Irms(A) Max.(Typ)	Isat(A) Max.(Typ)	RDC(m Ω) Max.(Typ)
MSH322512HR47M	0.47	20	2MHz,0.2V	4.6(5.2)	7.0(8.2)	25(19.0)
MSH322512H1R0M	1.0	20	2MHz,0.2V	3.7(4.2)	5.7(6.5)	34(27.5)
MSH322512H1R5M	1.5	20	2MHz,0.2V	2.8(3.2)	4.0(4.6)	59(51.0)
MSH322512H2R2M	2.2	20	2MHz,0.2V	2.7(3.0)	3.5(4.0)	73(64.0)

Notes:

- 1.All test data is referenced to 25°C ambient.
- 2.1.Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- 3.Isat for Inductance drop 30% from its value without current.
- 4.Irms for a 40°C temperature rise from 25°C ambient.
- 5.Absolute maximum voltage 20VDC
6. Rated current: Isat or Irms, whichever is smaller
7. Measure Equipment :
L : Agilent E4991/HP4286A+16197A (or equivalent), 2MHz 0.2V
RDC : CHEN HWA502BC/HP4338B (or equivalent)
Isat : Agilent E4990A+HP42841A (or equivalent)
Irms : Agilent 6641 SYSTEM DC POWER SUPPLY(or equivalent)
- 8.Test Condition:
Temperature:26 \pm 3°C
Humidity:<70% RH
Frequency:2MHz 0.2V

Molding Power Inductors -MSH Series

Curve:

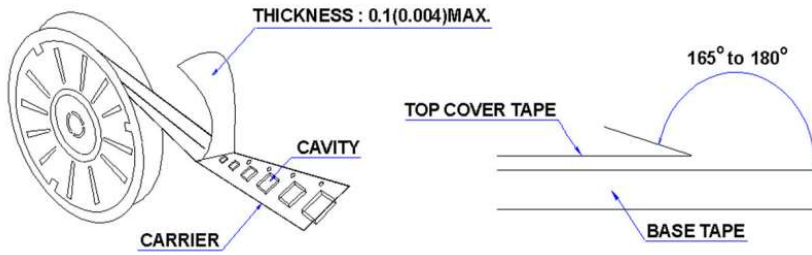


Molding Power Inductors -MSH Series

Packaging:

Packaging -Cover Tape

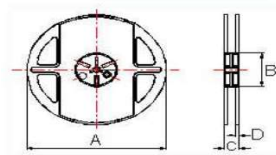
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



Packaging Quantity

Series	PCS/REEL
MSH322512	3000

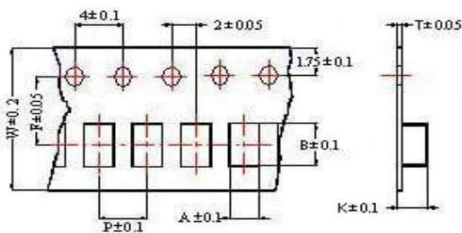
Reel Dimensions



Reel Dimensions:mm

Series	A	B	C	D
MSH322512	178	60	12	1.5

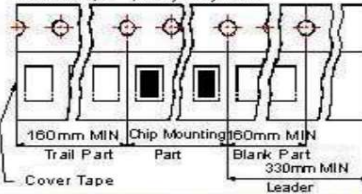
Tape Dimensions in mm



Tape Material

Carrier tape : Polycarbonate

Cover tape : Polyethylene



Series	A	B	T	W	P	F	K
MSH322512	2.80	3.5	0.23	8	4	3.5	1.34