SURFACE MOUNT MOLDED TYPE POWER INDUCTOR SERIES MTPI0612

FEATURES

- Low profile
- High current handling capacity
- Low noise and low DCR
- High reliability and efficiency
- RoHS compliant plus Lead and Halogen free
- Magnetically shielded

ELECTRICAL SPECIFICATIONS

- Inductance range	0.47uH to 10.0uH
111010101011100 1011160	0.17 611 10 10.0611

Test frequency
Test equipment
100 KHz with test level 1.0 V
Quadtech 1910 L analyzer

- Rated current range 2.5 to 12.0 Amps

- Tolerance ± 20%

- Rated current Refer to notes below

SPECIFICATIONS

Part Number	L (µH)	Tol % ±	DCR max (mΩ)	Rad Curre	
MTPI0612-R47M	0.47	20	17.0	8.5	12.0
MTPI0612-R68M	0.68	20	19.0	7.0	9.0
MTPI0612-1R0M	1.00	20	30.0	6.0	7.0
MTPI0612-2R2M	2.20	20	61.0	4.0	5.0
MTPI0612-3R3M	3.30	20	103.0	3.2	4.0
MTPI0612-4R7M	4.70	20	150.0	2.5	3.8
MTPI0612-6R8M	6.80	20	198.0	2.1	3.0
MTPI0612-100M	10.0	20	290.0	1.8	2.5

PHYSICAL SPECIFICATIONS

Operating temp.
Core
Terminal construction
Solder plating

- Packaging Box 6000 pieces per inner box

T & R 3000 pieces per reel

- Tape & reel spec. Tape 16 mm embossed carrier

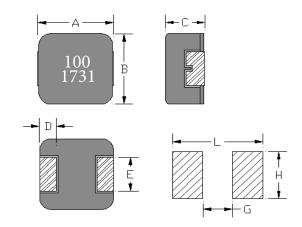
Reel 330 mm reel

DIMENSIONS IN MILLIMETERS

- Length A	7.0 ± 0.3
- Width B	6.6 ± 0.3
- Height C	1.0 ± 0.2
- Terminal width D	1.8 ± 0.3
- Terminal length E	2.5 ± 0.3

SUGGESTED LAND PATTERN

- -L = 7.7 mm ref.
- -G = 2.5 mm ref.
- -H = 3.0 mm ref.



Notes:

- (1) Based on ΔT approximately $40^{\circ}C$
- (2) L drops 20% typical

All test data based on 25°C ambient

Part temperature (ambient + temperature rise) must not exceed 125°C under worst case operating contions. Circuit design, components, PCB trace size, airflow and other cooling provisions all effect the part temperature.