SURFACE MOUNT MOLDED TYPE POWER INDUCTOR SERIES MTPI0503

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

- Rated current range 3.5 to 16.0 Amps

- Tolerance ± 20%

- Rated current Refer to notes below

SPECIFICATIONS

Part Number	L (μΗ)	Tol % ±	DCR max (mΩ)	Rac Curre	
MTPI0503-R47M	0.47	20	7.4	12.0	16.0
MTPI0503-R68M	0.68	20	12.0	8.5	14.0
MTPI0503-1R0M	1.00	20	14.0	7.0	11.0
MTPI0503-2R2M	2.20	20	36.0	5.5	9.0
MTPI0503-3R3M	3.30	20	38.0	5.0	8.0
MTPI0503-4R7M	4.70	20	53.0	4.6	6.0
MTPI0503-5R6M	5.60	20	63.0	4.25	4.5
MTPI0503-6R8M	6.80	20	76.2	4.0	4.0
MTPI0503-100M	10.0	20	128.0	2.75	3.5

PHYSICAL SPECIFICATIONS

Operating temp.
Core
Terminal construction
Solder plating

- Packaging Box 4000 pieces per inner box

T & R 2000 pieces per reel

- Tape & reel spec. Tape 12 mm embossed carrier

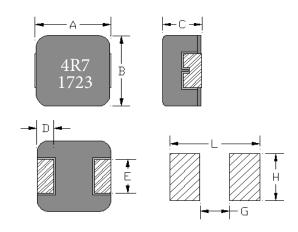
Reel 330 mm reel

DIMENSIONS IN MILLIMETERS

- Length A	5.7 ± 0.3
- Width B	5.2 ± 0.2
- Height C	2.8 ± 0.2
- Terminal width D	1.1 ± 0.3
- Terminal length E	1.5 ± 0.3

SUGGESTED LAND PATTERN

- -L = 6.5 mm ref.
- -G = 2.5 mm ref.
- -H = 1.8 mm ref.



Notes:

- (1) Based on ΔT approximately 40°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.