SURFACE MOUNT MOLDED TYPE POWER INDUCTOR SERIES MTP10402

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 	0.33uH to 22.0uH
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Test frequency
 Test equipment
 100 KHz with test level 1.0 V
 Quadtech 1910 L analyzer

- Rated current range 1.4 to 18.0 Amps

- Tolerance ± 20%

- Rated current Refer to notes below

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 12 mm embossed carrier

Reel 330 mm reel

SPECIFICATIONS

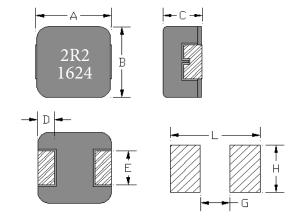
Part Number	L (μH)	Tol % ±	DCR max (mΩ)	Rated Current (A)	
			, ,	rms	sat
MTPI0402-R33M	0.33	20	8.6	10.0	18.0
MTPI0402-R47M	0.47	20	14.0	8.0	12.0
MTPI0402-R56M	0.56	20	16.0	7.3	10.0
MTPI0402-R68M	0.68	20	19.0	7.0	10.0
MTPI0402-1R0M	1.00	20	27.0	5.0	8.5
MTPI0402-1R2M	1.20	20	30.0	4.8	7.8
MTPI0402-1R5M	1.50	20	42.0	4.5	7.0
MTPI0402-2R2M	2.20	20	61.0	4.0	6.0
MTPI0402-3R3M	3.30	20	76.0	3.5	4.0
MTPI0402-4R7M	4.70	20	105.0	2.6	3.5
MTPI0402-5R6M	5.60	20	125.0	2.2	3.0
MTPI0402-6R8M	6.80	20	172.0	2.1	2.8
MTPI0402-8R2M	8.20	20	180.0	2.0	2.5
MTPI0402-100M	10.0	20	243.0	1.8	2.3
MTPI0402-150M	15.0	20	374.0	1.5	1.9
MTPI0402-220M	22.0	20	500.0	1.2	1.4

DIMENSIONS IN MILLIMETERS

- Length A	4.45 ± 0.25
- Width B	4.06 ± 0.25
- Height C	1.8 ± 0.2
- Terminal width D	0.76 ± 0.30
- Terminal length E	2.0 ± 0.20

SUGGESTED LAND PATTERN

- -L = 5.2 mm ref.
- -G = 2.2 mm ref.
- -H = 2.4 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.