SURFACE MOUNT MOLDING TYPE POWER INDUCTOR SERIES MTPI0618

SPECIFICATIONS

Part

Number

MTPI0618-R47M

MTPI0618-R68M

MTPI0618-1R0M

MTPI0618-2R2M

MTPI0618-3R3M

MTPI0618-4R7M

MTPI0618-5R6M

MTPI0618-6R8M

L

 (μH)

0.47

0.68

1.00

2.20

3.30

4.70

5.60

6.80

Tol

%

 \pm

20

20

20

20

20

20

20

20

DCR

max

 $(m\Omega)$

7.4

11.0

17.0

35.0

46.0

76.0

86.0

104.0

Rated

Current (A)

 $I_{rms}^{(1)} I_{sat}^{(2)}$

18.0

17.0

14.0

11.0

9.0

7.0

6.0

5.5

12.0

10.0

7.0

6.0

5.0

4.0

3.5

3.0

FEATURES

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

ELECTRICAL SPECIFICATIONS

- Inductance range 0.47uH to 6.8uH

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

- Rated current range 5.5 to 18.0 Amps

- Tolerance $\pm 20\%$

- Rated current Refer to notes below

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 16 mm embossed carrier

Reel 330 mm reel

DIMENSIONS IN MILLIMETERS

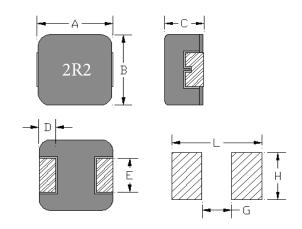
- Length A	7.0 ± 0.3
- Width B	6.6 ± 0.3
- Height C	1.6 ± 0.2
- Terminal width D	1.8 ± 0.3
- Terminal length E	3.0 ± 0.3

SUGGESTED LAND PATTERN

-L = 7.7 mm ref.

-G = 2.5 mm ref.

-H = 3.5 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.