SURFACE MOUNT MOLDED TYPE POWER INDUCTOR SERIES MTP10605

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 	0.22uH 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 7.5 to 35.0 Amps - Tolerance ± 20% (M)

- Rated current Refer to notes below

PHYSICAL SPECIFICATIONS

Operating temp.
 Core
 Terminal construction
 Solder plating

- Packaging Box 1600 pieces per inner box

T & R 800 pieces per reel

- Tape & reel spec. Tape 16 mm embossed carrier

Reel 330 mm reel

DIMENSIONS IN MILLIMETERS

- Length A	7.3 ± 0.3
- Width B	6.6 ± 0.3
- Height C	4.8 ± 0.2
- Terminal width D	1.8 ± 0.3
- Terminal length E	3.0 ± 0.3

SUGGESTED LAND PATTERN

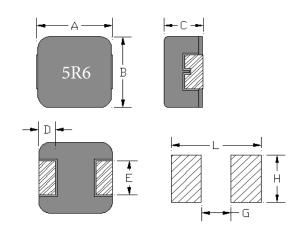
-L = 8.4 mm ref.

-G = 2.5 mm ref.

-H = 3.5 mm ref.

SPECIFICATIONS

Part Number	L (µH)	Tol % ±	DCR max (mΩ)	Rad Curre	nt (A)
MTPI0605-R22M MTPI0605-R33M MTPI0605-R40M MTPI0605-R47M MTPI0605-R56M MTPI0605-R60M MTPI0605-R68M MTPI0605-1R0M MTPI0605-1R2M MTPI0605-1R5M MTPI0605-1R8M MTPI0605-1R8M MTPI0605-3R3M MTPI0605-3R3M MTPI0605-4R7M	0.22 0.33 0.40 0.47 0.56 0.60 0.68 0.82 1.00 1.20 1.50 1.80 2.20 3.30 4.70	,-		1 _{rms} ⁽¹⁾ 25.0 25.0 23.0 22.0 20.0 19.0 18.0 16.5 15.0 14.0 12.0 10.0 8.0 6.5	I _{sat} ⁽²⁾ 35.0 32.0 31.0 30.0 27.0 25.0 24.0 22.0 20.0 18.0 16.5 15.0 14.0 12.0 10.0
MTPI0605-5R6M MTPI0605-6R8M MTPI0605-8R2M MTPI0605-100M	5.60 6.80 8.20 10.0	20 20 20 20	49.0 51.5 63.0 69.0	6.0 5.5 5.0 4.0	9.0 8.5 8.0 7.5



Notes:

- (1) Based on ΔT approximately 40°C rise
- (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.