

**SURFACE MOUNT MOLDED TYPE
POWER INDUCTOR SERIES MTP11265**

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 1.0uH to 10.0uH
- Test frequency 100 KHz with test level 1.0 V
- Test equipment Quadtech 1910 L analyzer
- Rated current range 15.5 to 48.0 Amps
- Tolerance $\pm 20\%$
- Rated current Refer to notes below

PHYSICAL SPECIFICATIONS

- Operating temp. -40°C to +125°C
- Core Mixed material
- Terminal construction Solder plating
- Packaging
 - Box 1000 pieces per inner box
 - T & R 500 pieces per reel
- Tape & reel spec.
 - Tape 24 mm embossed carrier
 - Reel 330 mm reel

DIMENSIONS IN MILLIMETERS

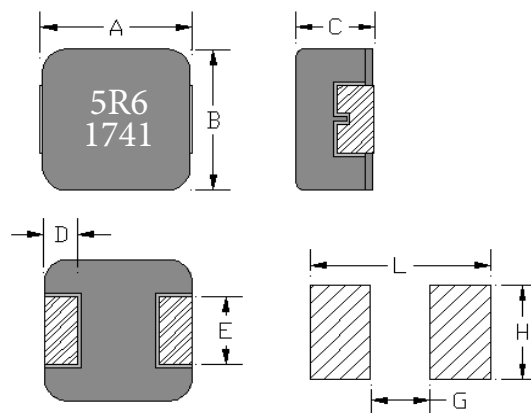
- Length A 13.5 \pm 0.5
- Width B 12.5 \pm 0.3
- Height C 6.2 \pm 0.3
- Terminal width D 2.3 \pm 0.3
- Terminal length E 4.7 \pm 0.3

SUGGESTED LAND PATTERN

- L = 14.2 mm ref.
- G = 8.0 mm ref.
- H = 5.0 mm ref.

SPECIFICATIONS

Part Number	L (μ H)	Tol % \pm	DCR max (m Ω)	Rated Current (A)	
				I _{rms} ⁽¹⁾	I _{sat} ⁽²⁾
MTP11265-1R0M	1.00	20	2.3	30.0	48.0
MTP11265-2R2M	2.20	20	4.2	22.0	37.0
MTP11265-3R3M	3.30	20	6.8	18.0	30.0
MTP11265-4R7M	4.70	20	8.4	13.5	28.0
MTP11265-5R6M	5.60	20	10.0	12.5	23.0
MTP11265-6R8M	6.80	20	11.5	11.5	18.0
MTP11265-8R2M	8.20	20	15.5	10.5	16.0
MTP11265-100M	10.0	20	16.5	10.0	15.5



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 conditions.

Circuit design, components, PCB trace size, airflow and other cooling provisions all effect the part temperature.