

**SURFACE MOUNT MOLDED TYPE
POWER INDUCTOR SERIES MTP11206**

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 1.5uH 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 43.0 Amps
- Tolerance ± 20% (M)
- Rated current Refer to notes below

SPECIFICATIONS

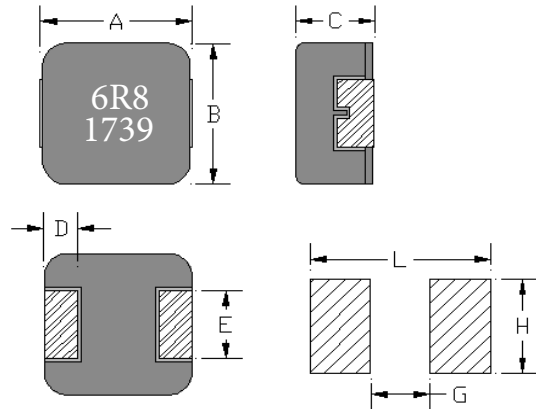
Part Number	L (μ H)	Tol % ±	DCR max ($m\Omega$)	Rated Current (A)	
				$I_{rms}^{(1)}$	$I_{sat}^{(2)}$
MTP11206-1R5M	1.50	20	3.2	26.0	43.0
MTP11206-2R2M	2.20	20	4.7	21.0	34.0
MTP11206-3R3M	3.30	20	7.1	17.0	28.0
MTP11206-4R7M	4.70	20	11.5	16.0	25.0
MTP11206-5R6M	5.60	20	12.6	15.5	22.0
MTP11206-6R8M	6.80	20	13.8	15.0	19.0
MTP11206-100M	10.0	20	20.7	11.0	15.5

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 ± 0.5
- Width B 12.5 ± 0.3
- Height C 5.7 ± 0.3
- Terminal width D 2.3 ± 0.3
- Terminal length E 4.7 ± 0.3



SUGGESTED LAND PATTERN

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

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