

**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 and Halogen free

**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**

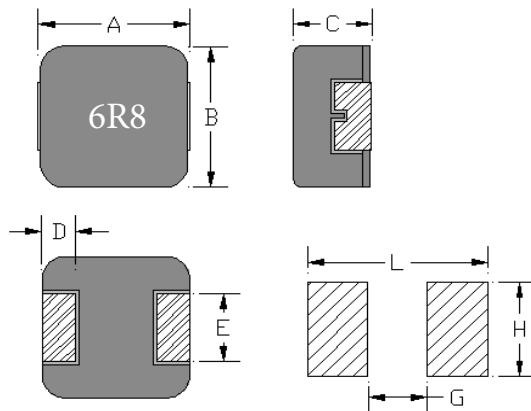
Part Number	L ( $\mu$ H)	Tol % ±	DCR max (m $\Omega$ )	Rated Current (A)	
				I <sub>rms</sub> <sup>(1)</sup>	I <sub>sat</sub> <sup>(2)</sup>
MTP11206-1R5M	1.50	20	3.2	26.0	43.0
MTP11206-2R2M	2.20	20	4.7	21.0	34.0
MTP11206-3R3M	3.30	20	7.1	17.0	28.0
MTP11206-4R7M	4.70	20	11.5	16.0	25.0
MTP11206-5R6M	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  $\Delta$ T 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.