SURFACE MOUNT POWER INDUCTOR SERIES LPPI4010

FEATURES

- Low profile
- High reliability and efficiency
- RoHS compliant plus Lead & Halogen free
- Magnetically shielded

ELECTRICAL SPECIFICATIONS

- Inductance range 1.0uH to 22.0uH
- Test frequency 100KHz with test level 1 V
- Test equipment Quadtech 1910 L analyzer
- Rated current range 0.45 to 2.00 Amps
- Tolerance ± 20% (M) & ± 30% (Y)
- Rated current Refer to notes below

SPECIFICATIONS

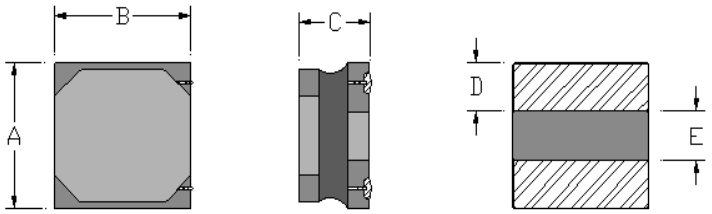
Part Number	L (µH)	Tol % ±	DCR ±20% (mΩ)	Rated Current (A)	
				I_{rms} (1)	I_{sat} (2)
LPPI4010-1R0Y	1.0	30	56.0	1.90	2.00
LPPI4010-2R2M	2.2	20	85.0	1.50	1.20
LPPI4010-3R3M	3.3	20	100.0	1.40	1.10
LPPI4010-4R7M	4.7	20	140.0	1.20	0.95
LPPI4010-6R8M	6.8	20	200.0	1.00	0.80
LPPI4010-100M	10.0	20	300.0	0.75	0.62
LPPI4010-150M	15.0	20	430.0	0.60	0.54
LPPI4010-220M	22.0	20	570.0	0.50	0.45

PHYSICAL SPECIFICATIONS

- Operating temp. -40ºC to +125ºC
- Core Ferrite core
- Terminal construction Ag/Ni/Sn plating
- Packaging T & R 5000 pieces per reel
- Tape & reel spec. Tape 12 mm embossed carrier
  Reel 330 mm reel

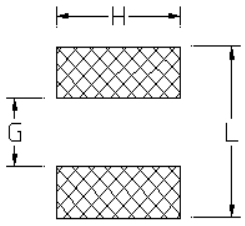
DIMENSIONS IN MILLIMETERS

- Length A 4.0 ± 0.2
- Width B 4.0 ± 0.2
- Height C 1.0 max.
- Terminal width D 1.2 ref.
- Terminal pitch E 1.6 ref.



RECOMMENDED PC BOARD PATTERN

- L = 4.2 mm ref.
- G = 1.2 mm ref.
- H = 4.2 mm ref.



Notes:
(1) Based on coil temperature rise ΔT approximately 40°C
(2) L drops 30% from OCL 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.