

**SURFACE MOUNT POWER
INDUCTOR SERIES LPPI6020**

FEATURES

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

ELECTRICAL SPECIFICATIONS

- Inductance range 1.0uH to 47.0uH
- Test frequency 100KHz with test level 1 V
- Test equipment Quadtech 1910 L analyzer
- Rated current range 1.0 to 7.0 Amps
- Tolerance $\pm 10\%$ (K), $\pm 15\%$ (L), $\pm 20\%$ (M) & $\pm 30\%$ (Y)
- Rated current Refer to notes below

PHYSICAL SPECIFICATIONS

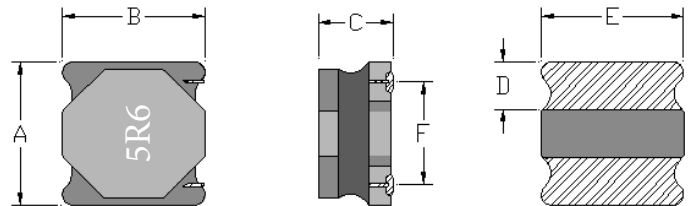
- Operating temp. -40°C to +125°C
- Core Ferrite core
- Terminal construction Ag/Ni/Sn plating + Lead free solder
- Packaging T & R 2000 pieces per reel
- Tape & reel spec. Tape 16 mm embossed carrier
Reel 330 mm reel

SPECIFICATIONS

Part Number	L (μ H)	Tol % \pm	DCR $\pm 20\%$ (m Ω)	Rated Current (A)	
				I _{rms} ⁽¹⁾	I _{sat} ⁽²⁾
LPPI6020-R80	0.80	20/30	16.0	5.00	7.00
LPPI6020-1R0	1.00	20/30	19.0	4.00	6.70
LPPI6020-1R5	1.50	20/30	22.5	3.30	5.00
LPPI6020-2R0	2.00	20/30	25.0	3.30	4.90
LPPI6020-2R2	2.20	20/30	29.0	3.20	4.60
LPPI6020-3R3	3.30	20/30	35.0	3.00	3.60
LPPI6020-4R7	4.70	15~30	54.0	2.50	2.70
LPPI6020-5R6	5.60	15~30	59.0	2.30	2.40
LPPI6020-6R8	6.80	15~30	78.0	2.20	2.30
LPPI6020-8R2	8.20	15~30	103.0	2.00	2.10
LPPI6020-100	10.0	10~30	106.0	1.90	1.90
LPPI6020-150	15.0	10~30	138.0	1.40	1.30
LPPI6020-220	22.0	10~30	204.0	1.10	1.10
LPPI6020-330	33.0	10~30	340.0	1.10	1.00

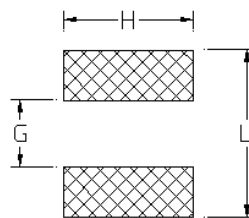
DIMENSIONS IN MILLIMETERS

- Length A 6.0 \pm 0.2
- Width B 6.0 \pm 0.2
- Height C 1.8 \pm 0.2
- Terminal width D 1.6 \pm 0.3
- Terminal length E 5.8 \pm 0.3
- Terminal center space F 4.3 ref.



RECOMMENDED PC BOARD PATTERN

- L = 6.1 mm ref.
- G = 2.5 mm ref.
- H = 5.8 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 conditions.
Circuit design, components, PCB trace size, airflow and other cooling provisions all effect the part temperature.