

**SURFACE MOUNT POWER
INDUCTOR SERIES LPPI6045**

FEATURES

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

ELECTRICAL SPECIFICATIONS

- Inductance range 1.0uH to 470.0uH
- Test frequency 100KHz with test level 1 V
- Test equipment Quadtech 1910 L analyzer
- Rated current range 0.35 to 12.5 Amps
- Tolerance ± 10% (K), ± 15%(L),
 ± 20% (M) & ± 30% (Y)
- Rated current Refer to notes below

PHYSICAL SPECIFICATIONS

- Operating temp. -40°C to +125°C
- Core Ferrite core
- Terminal construction Copper foil + Lead free solder
- Packaging T & R 1000 pieces per reel
- Tape & reel spec. Tape 16 mm embossed carrier
 Reel 330 mm reel

DIMENSIONS IN MILLIMETERS

- Length A 6.0 ± 0.3
- Width B 6.0 ± 0.3
- Width B' 4.8 ± 0.2
- Height C 4.2 ± 0.3
- Terminal width D 1.7 ± 0.3
- Terminal length E 4.5 ± 0.3
- Terminal center space F 4.25 ± 0.3

RECOMMENDED PC BOARD PATTERN

- L = 6.5 mm ref.
- G = 1.8 mm ref.
- H = 4.8 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.

SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR ±20% (mΩ)	Rated Current (A)	
				I _{rms} ⁽¹⁾	I _{sat} ⁽²⁾
LPPI6045-1R0	1.00	20/30	10.0	7.30	12.5
LPPI6045-1R2	1.20	20/30	10.5	7.00	11.5
LPPI6045-1R5	1.50	20/30	11.7	6.60	11.0
LPPI6045-1R8	1.80	20/30	12.0	6.20	10.0
LPPI6045-2R0	2.00	20/30	13.5	5.80	9.50
LPPI6045-2R2	2.20	20/30	15.0	5.30	8.55
LPPI6045-2R3	2.30	20/30	16.0	5.00	8.20
LPPI6045-3R3	3.30	20/30	21.0	4.50	7.30
LPPI6045-3R6	3.60	20/30	22.5	4.30	6.90
LPPI6045-4R7	4.70	15~30	26.0	4.00	6.20
LPPI6045-5R6	5.60	15~30	31.0	3.70	5.70
LPPI6045-6R3	6.30	15~30	33.0	3.50	5.30
LPPI6045-6R8	6.80	15~30	34.0	3.30	5.15
LPPI6045-100	10.0	10~30	52.0	2.60	4.20
LPPI6045-150	15.0	10~30	71.0	2.20	3.30
LPPI6045-220	22.0	10~30	96.0	1.90	2.70
LPPI6045-330	33.0	10~30	145.0	1.50	2.10
LPPI6045-470	47.0	10~30	200.0	1.20	1.75
LPPI6045-680	68.0	10~30	305.0	0.92	1.52
LPPI6045-101	100.0	10~30	456.0	0.82	1.25
LPPI6045-151	150.0	10~30	626.0	0.70	1.00
LPPI6045-331	330.0	10~30	1400	0.45	0.55
LPPI6045-471	470.0	10~30	2050	0.35	0.45

