

**SURFACE MOUNT POWER
INDUCTOR SERIES LPPI201610**

FEATURES

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

ELECTRICAL SPECIFICATIONS

- Inductance range 0.47uH to 22.0uH
- Test frequency 1MHz with test level 0.1 V
- Test equipment Quadtech 1910 L analyzer
- Rated current range 0.27 to 2.70 Amps
- Tolerance ± 20% (M) & ± 30% (Y)
- Rated current Refer to notes below

PHYSICAL SPECIFICATIONS

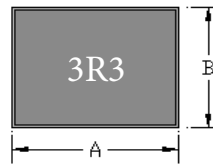
- Operating temp. -40°C to +125°C
- Core Ferrite core
- Terminal construction Ag/Ni/Sn plating
- Packaging T & R 2000 pieces per reel
- Tape & reel spec. Tape 8 mm embossed carrier
- Reel 178 mm reel

SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR (mΩ) ±20%	Rated Current (A)	
				I _{rms} ⁽¹⁾	I _{sat} ⁽²⁾
LPPI201610-R47Y	0.47	30	44	2.35	2.70
LPPI201610-R68Y	0.68	30	62	2.05	2.00
LPPI201610-1R0Y	1.0	30	80	1.60	1.80
LPPI201610-1R5Y	1.5	30	130	1.26	1.46
LPPI201610-2R2M	2.2	20	145	1.20	1.26
LPPI201610-3R3M	3.3	20	245	0.95	0.90
LPPI201610-4R7M	4.7	20	360	0.90	0.77
LPPI201610-6R8M	6.8	20	500	0.55	0.72
LPPI201610-100M	10.0	20	720	0.45	0.55
LPPI201610-150M	15.0	20	1400	0.36	0.45
LPPI201610-180M	18.0	20	1800	0.34	0.40
LPPI201610-220M	22.0	20	2000	0.27	0.38

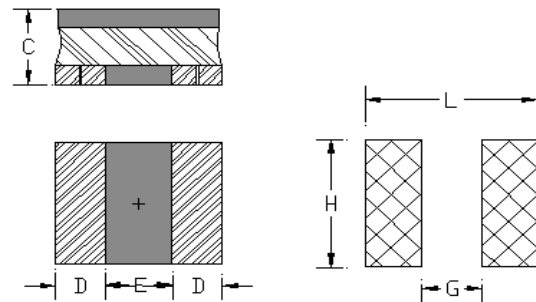
DIMENSIONS IN MILLIMETERS

- Length A 2.0-0.1/+0.2
- Width B 1.6-0.1/+0.2
- Height C 1.0 max.
- Terminal width D 0.60 ref.
- Terminal pitch E 0.80 ref.



RECOMMENDED PC BOARD PATTERN

- L = 2.4 mm ref.
- G = 0.8 mm ref.
- H = 1.8 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.