

**SURFACE MOUNT POWER
INDUCTOR SERIES LPPI252012**

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 1MHz with test level 0.1 V
- Test equipment Quadtech 1910 L analyzer
- Rated current range 0.40 to 2.24 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

DIMENSIONS IN MILLIMETERS

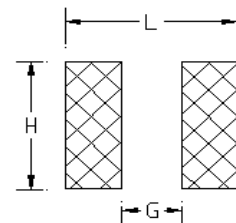
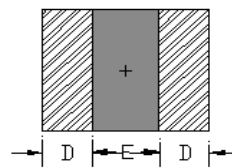
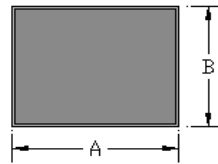
- Length A 2.5 ± 0.2
- Width B 2.0 ± 0.2
- Height C 1.2 max.
- Terminal width D 0.85 ref.
- Terminal pitch E 0.80 ref.

RECOMMENDED PC BOARD PATTERN

- L = 2.7 mm ref.
- G = 0.8 mm ref.
- H = 2.2 mm ref.

SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR (mΩ) ±20%	Rated Current (A)	
				I _{rms} ⁽¹⁾	I _{sat} ⁽²⁾
LPPI252012-1R0Y	1.0	30	73	1.76	2.24
LPPI252012-1R5Y	1.5	30	100	1.48	1.76
LPPI252012-2R2M	2.2	20	129	1.36	1.44
LPPI252012-3R3M	3.3	20	220	0.96	1.04
LPPI252012-4R7M	4.7	20	290	0.83	0.88
LPPI252012-6R8M	6.8	20	370	0.75	0.75
LPPI252012-100M	10.0	20	570	0.60	0.65
LPPI252012-150M	15.0	20	835	0.45	0.60
LPPI252012-220M	22.0	20	1200	0.40	0.55



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.