

**SURFACE MOUNT POWER INDUCTORS
SERIES SPI0804**

FEATURES

- Very low resistance
- High energy storage
- Ideal for DC-DC conversion in notebook computers and converters
- High heat resistance, excellent for flow or reflow soldering
- Available in bulk or tape and reel

ELECTRICAL SPECIFICATIONS

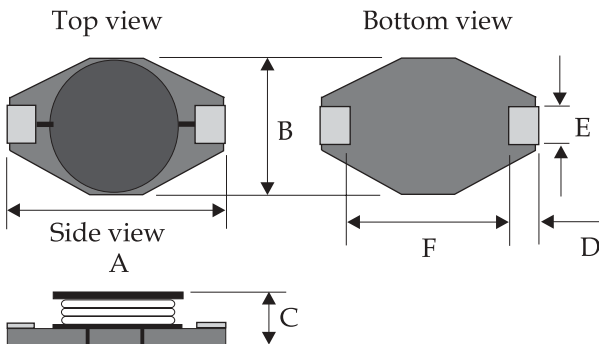
- Inductance range 1 μ H to 1000 μ H
- Test frequency 100KHz @ 0.1V test level
- Test equipment Quadtech 1750 LCR Meter
- Rated current range 0.3 Amps to 6.8 Amps
- Tolerance \pm 20%
- Saturation current Measured when L_o drops 15% typical
- Rated current Measured when temperature rises up to 25°C

PHYSICAL SPECIFICATIONS

- Operating temperature -40°C to +125°C
- Core Ferrite
- Terminal Flat tinned copper wire
- Packaging Bulk 100 pieces per bag
 T & R 700 pieces per reel
- Tape & reel spec. Tape 24 mm embossed carrier
 Reel 330 mm plastic or paper

DIMENSIONS IN MILLIMETERS

- Length A 12.95 max.
- Width B 9.50 max.
- Height C 5.50 max.
- Terminal length D 2.54 nominal
- Terminal width E 2.54 nominal
- Space between terminals F 7.62 nominal



SPECIFICATIONS

Part Number	L (μ H)	Tol % \pm	DCR max (Ω)	Saturation Current (mA)	Rated Current (mA)
SPI0804-1R0M	1.0	20	0.009	9000	6800
SPI0804-1R5M	1.5	20	0.010	8000	6400
SPI0804-2R2M	2.2	20	0.012	7000	6100
SPI0804-3R3M	3.3	20	0.015	6400	5400
SPI0804-4R7M	4.7	20	0.018	5400	4800
SPI0804-6R8M	6.8	20	0.027	4600	4400
SPI0804-100M	10	20	0.035	3800	3900
SPI0804-150M	15	20	0.046	3000	3100
SPI0804-220M	22	20	0.070	2600	2700
SPI0804-330M	33	20	0.100	2000	2100
SPI0804-470M	47	20	0.140	1600	1800
SPI0804-680M	68	20	0.190	1400	1500
SPI0804-101M	100	20	0.280	1200	1300
SPI0804-151M	150	20	0.400	1000	1000
SPI0804-221M	220	20	0.600	800	800
SPI0804-331M	330	20	0.960	600	600
SPI0804-471M	470	20	1.300	500	500
SPI0804-681M	680	20	1.900	400	400
SPI0804-102M	1000	20	2.600	300	300

SUGGESTED LAND PATTERN

- A = 7.37 mm
- B = 2.79 mm
- C = 2.92 mm

