SURFACE MOUNT POWER INDUCTORS
SERIES SPI0810

FEATURES

- High current capacity per volume
- High reliability
- High heat resistance, excellent for flow or reflow soldering
- Low price

ELECTRICAL SPECIFICATIONS

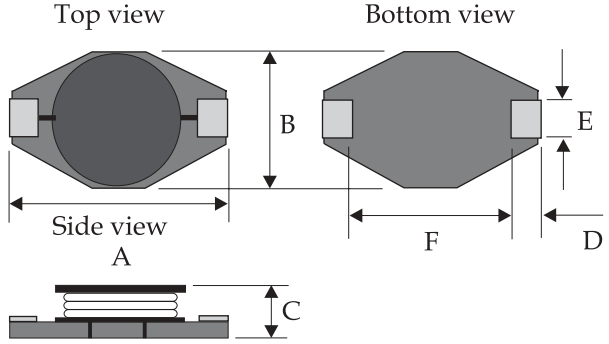
- Inductance range	10uH to 1000uH
- Test frequency	100KHz @ 0.1V test level
- Test equipment	Quadtech 1750 LCR Meter
- Rated current range	0.45 Amps to 4.5 Amps
- Tolerance	± 20%
- Saturation current	Measured when Lo drops 15% typical
- Rated current	Measured when temperature rises up to 30ºC

PHYSICAL SPECIFICATIONS

- Operating temp.	-40ºC to +125ºC	
- Core	Ferrite	
- Terminal	Flat tinned copper wire	
- Packaging	Bulk	100 pieces per bag
	T & R	400 pieces per reel
- Tape & reel spec.	Tape	24 mm embossed carrier
	Reel	330 mm plastic or paper

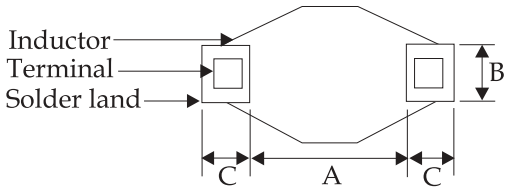
DIMENSIONS IN MILLIMETERS

- Length A	12.95 max.
- Width B	9.40 max.
- Height C	11.43 max.
- Terminal length D	2.54 nominal
- Terminal width E	2.54 nominal
- Distance between terminals F	7.62 nominal



SPECIFICATIONS

Part Number	L (µH)	Tol % ±	DCR max (Ω)	Saturation Current (mA)	Rated current (mA)
SPI0810-100M	10	20	.033	8000	4500
SPI0810-150M	15	20	.042	7000	4000
SPI0810-220M	22	20	.055	5500	3000
SPI0810-330M	33	20	.080	4000	2500
SPI0810-470M	47	20	.106	3800	2000
SPI0810-680M	68	20	.170	3000	1600
SPI0810-101M	100	20	.220	2500	1200
SPI0810-151M	150	20	.340	2000	1000
SPI0810-221M	220	20	.440	1600	900
SPI0810-331M	330	20	.700	1200	700
SPI0810-471M	470	20	.950	1000	600
SPI0810-681M	680	20	1.20	1000	500
SPI0810-102M	1000	20	1.90	800	450

SUGGESTED LAND PATTERN

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