

**SURFACE MOUNT POWER INDUCTORS
SERIES SPI1306**

FEATURES

- This series is designed for the high current requirements of the *Pentium Pro™ computers, and other portable handheld devices.
- Low DCR
- Low power loss
- Good for auto pick and place equipment during assembly

ELECTRICAL SPECIFICATIONS

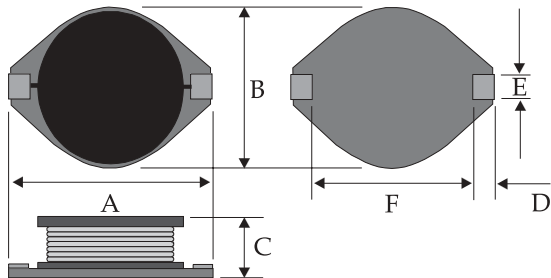
- Inductance range 1uH to 1000uH
- Test frequency 100KHz @ 0.1V test level
- Test equipment Quadtech 1750 LCR Meter
- Rated current range 0.6 to 9 Amps
- Tolerance ± 20%
- Saturation current Measured when Lo drops 15% typical
- Rated current Measured when temperature rises up to 30°C

PHYSICAL SPECIFICATIONS

- Operating temperature -40°C to +125°C
- Core Ferrite
- Terminal Flat tinned copper wire
- Packaging Bulk 100 pieces per bag
 T & R 350 pieces per reel
- Tape & reel spec. Tape 44 mm embossed carrier tape
 Reel 330 mm paper or plastic reel

DIMENSIONS IN MILLIMETERS

- Length A 18.54 max.
- Width B 15.49 max.
- Height C 7.11 max.
- Terminal length D 2.54 nominal
- Terminal width E 2.54 nominal
- Distance between terminals F 13.10 nominal



NOTE

* Pentium Pro™ is a registered trademark of Intel corporation.

SPECIFICATIONS

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Saturation Current (mA)	Rated Current (mA)
SPI1306-1R0M	1.0	20	.008	20000	9000
SPI1306-2R2M	2.2	20	.010	16000	8100
SPI1306-3R3M	3.3	20	.015	14000	7500
SPI1306-5R6M	5.6	20	.017	12000	5800
SPI1306-100M	10	20	.025	10000	5000
SPI1306-150M	15	20	.030	8000	4200
SPI1306-220M	22	20	.040	7000	3800
SPI1306-330M	33	20	.060	5500	3200
SPI1306-470M	47	20	.080	4500	2800
SPI1306-680M	68	20	.120	3500	2400
SPI1306-101M	100	20	.170	3000	2100
SPI1306-151M	150	20	.240	2600	1800
SPI1306-181M	180	20	.350	2200	2000
SPI1306-221M	220	20	.370	2400	1400
SPI1306-331M	330	20	.540	1900	1100
SPI1306-471M	470	20	.820	1400	900
SPI1306-681M	680	20	1.02	1200	850
SPI1306-102M	1000	20	1.60	1000	600

SUGGESTED LAND PATTERN

- A = 12.72 mm
- B = 2.79 mm
- C = 2.92 mm

