

**SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES SPS1608**

FEATURES

- Low profile and shielded
- Very effective in space-conscious applications
- Low resistance and high energy storage
- Sturdy construction
- Excellent for used in DC-DC converters in notebooks computers, PDA and mobile phones
- Other applications include step-up or step-down converters and flash memory programmers

ELECTRICAL CHARACTERISTICS

- Inductance range 1.0uH to 10,000uH with $\pm 20\%$ tolerance
- Test equipment Quadtech 1750 LCR Meter at 100 kHz
- Rated current Based on temperature rises of 30° C typical

PHYSICAL CHARACTERISTICS

- Operating temp. - 40° C to +125° C
- Soldering heat resistance 260° C for 10 seconds
- Construction Surface mount with ferrite core
- Terminal Gold plated
- Tape & reel spec. 330 mm plastic reel with 24 mm embossed carrier tape
- Quantity per reel 2,000 pieces

SPECIFICATIONS

Part Number	L (μ H)	Tol % \pm	DCR max (Ω)	Rated Current (A)
SPS1608-1R0M	1.0	20	0.040	3.00
SPS1608-1R5M	1.5	20	0.045	2.30
SPS1608-2R2M	2.2	20	0.050	1.80
SPS1608-3R3M	3.3	20	0.055	1.60
SPS1608-4R7M	4.7	20	0.060	1.40
SPS1608-6R8M	6.8	20	0.065	1.20
SPS1608-100M	10	20	0.075	1.00
SPS1608-150M	15	20	0.090	0.80
SPS1608-220M	22	20	0.110	0.70
SPS1608-330M	33	20	0.190	0.60
SPS1608-470M	47	20	0.230	0.50
SPS1608-680M	68	20	0.290	0.40
SPS1608-101M	100	20	0.480	0.30
SPS1608-151M	150	20	0.590	0.26
SPS1608-221M	220	20	0.770	0.22
SPS1608-331M	330	20	1.400	0.20
SPS1608-471M	470	20	1.800	0.19
SPS1608-681M	680	20	2.200	0.16
SPS1608-102M	1000	20	3.400	0.15
SPS1608-152M	1500	20	4.200	0.12
SPS1608-222M	2200	20	8.500	0.10
SPS1608-332M	3300	20	11.00	0.08
SPS1608-472M	4700	20	13.90	0.06
SPS1608-682M	6800	20	25.00	0.04
SPS1608-103M	10000	20	32.80	0.02

DIMENSIONS IN MILLIMETERS

- A 4.45 max.
- B 6.60 max.
- C 2.92 max.
- D 1.02 \pm 0.2
- F 4.32 \pm 0.3

SUGGESTED LAND PATTERN

