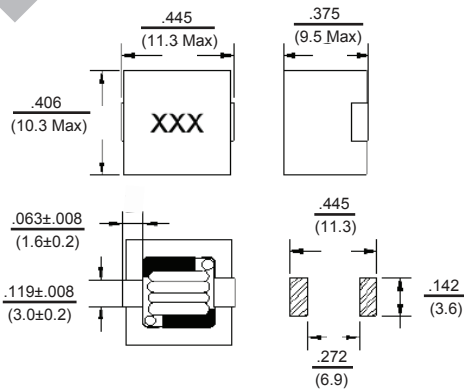




# Power Shielded Inductor

# PS100



Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$

Allied Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz, 0.5V)	RDC m Ω Max	Isat (A) Max	Irms (A) Max
PS100-R56M-RC	.56	20	100	2.0	50	26
PS100-1R0M-RC	1.0	20	100	3.0	40	21
PS100-2R0M-RC	2.0	20	100	5.7	35	16
PS100-3R3M-RC	3.3	20	100	11.5	28	11
PS100-4R7M-RC	4.7	20	100	11.5	12	11
PS100-6R8M-RC	6.8	20	100	26	10	7

All specifications subject to change without notice.

### Features

- SMD Ultra High Current up to 50
- Magnetically Shielded Construction
- Designed for low buzz noise
- Low DC Resistance
- Suitable for pick and place

### Electrical

**Inductance Range:** .56μH to 6.8μH additional values available.

**Tolerance:** 20% over entire range  
Available in tighter tolerances

**Test Frequency:** 100KHz

**Operating Temp:** -25°C to +85°C

**Temp. Rise:** Δ=40°C Typical at rated I<sub>rms</sub> without without core loss.

Part temperature should not exceed 125°C including temperature rise.

Inductance drop: 20% typical at rated Isat

### Resistance to Soldering Heat

Pre-Heat 150°C, 1 minute.

**Solder Composition:** Sn/Ag3.0/Cu0.5

**Solder Temp:** 260°C ± 5°C

**Immersion Time:** 10 sec. ± 1 sec.

### Test Equipment

**(L):** WK 4237 Meter

**DCR:** HK502BS Meter

**Isat/Irms:** 3260B WK & DC Bias 3265B WK

### Physical

**Packaging:** 400 pieces per 13 inch reel.

**Marking:** EIA Inductance Code