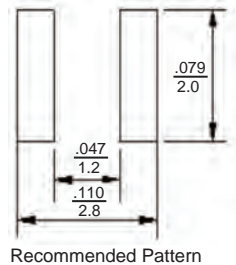
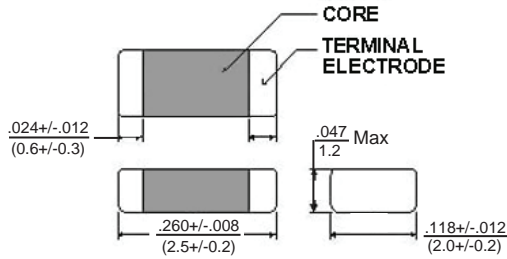




## SMD Shielded Power Inductor

## PCSM25A8S

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



### Features

- Magnetically Shielded Construction
- High Saturation current for its size.
- Low DC Resistance
- Small Foot Print 1008 Package
- Low Profile 1.2Max Ht.

### Electrical

**Inductance Range:** .33 $\mu$ h to 2.2 $\mu$ h

**Tolerance:**  $\pm 20\%$  over the entire range

**Test Frequency:** 2MHz, 0.2V

**Operating Temp. Range:** -40° ~ +125°C

**Storage Temp:** -55°C ~ +125°C

**Irms:** DC Current at which the  $\Delta = 40^\circ$ C Typical

**Isat:** DC Current at which the inductance will drop approximately 30%

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

### Resistance to Soldering Heat

**Pre-Heat:** 150°C, 1 Min.

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

**Solder Temp:** 260°C +/- 5 °C

**Immersion Time:** 10 Sec. +/- 1 sec.

### Test Equipment

**(L):** Agilent E4991A/HP 4287A+16197A

**DCR:** Chen HWA502

**Isat:** Agilent E4980A+HP42841A

**Irms:** Agilent 6641 System DC Power Supply

### Physical

**Packaging:** 3000 pieces per 7 inch reel

**Marking:** None

Allied Part Number	Inductance ( $\mu$ h)	Tolerance (%)	Test Frequency (MHz, 0.2V)	DCR m $\Omega$ Max.	Isat (A) Max.	Irms (A) Max.
PCSM25A8S-R33M-RC	0.33	20	2	35	6.8	4.0
PCSM25A8S-R47M-RC	0.47	20	2	39	6.2	3.7
PCSM25A8S-R68M-RC	0.68	20	2	46	5.5	3.3
PCSM25A8S-1R0M-RC	1.0	20	2	59	4.0	3.0
PCSM25A8S-1R5M-RC	1.5	20	2	70	3.4	2.5
PCSM25A8S-2R2M-RC	2.2	20	2	115	3.3	2.0

All specifications subject to change without notice.