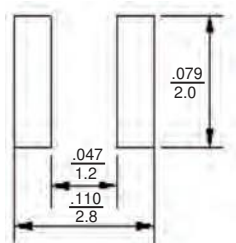
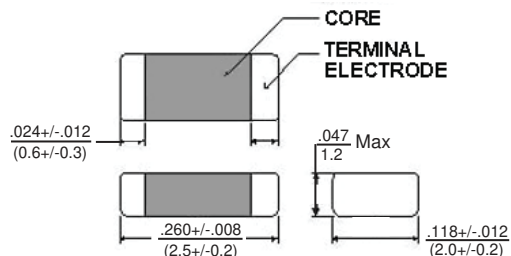




SMD Shielded Power Inductor

PCSM25A8S

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



Recommended Pattern

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 μ h to 2.2 μ 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 $\pm 5^\circ$ 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 (\approx h)	Tolerance (%)	Test Frequency (MHz, 0.2V)	DCR m Ω 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.