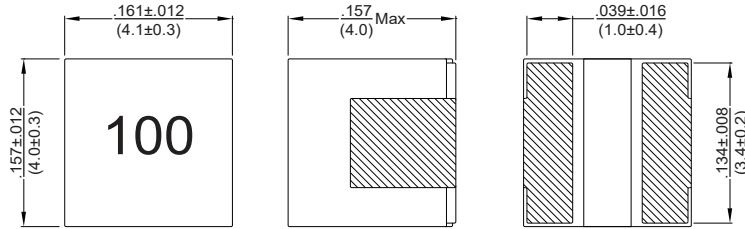




SMD Shielded Power Choke

PCHC440

Dimensions: $\frac{\text{inch}}{\text{mm}}$



| Allied Part Number | Inductance (μH) $\pm 20\%$ | Test Frequency (KHz) | DCR (m Ω) | | Isat (A) Typ. | I _{rms} (A) Typ. | Marking |
|--------------------|---|----------------------|-------------------|------|---------------|---------------------------|---------|
| | | | Max. | Typ. | | | |
| PCHC440-100M | 10.0 | 100, 0.25V | 132 | 120 | 2.0 | 2.6 | 100 |

All specifications subject to change without notice.

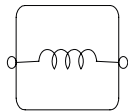
Features

- Magnetically shielded construction
- Low DC Resistance
- MSL Level 1

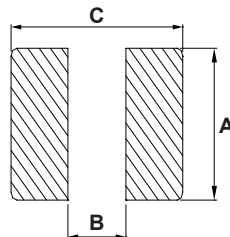
Electrical

Inductance Range: 10 μH
Tolerance: $\pm 20\%$
Test Frequency: 100KHz, 0.25V
Operating Temp Range: -55°C to +125°C
Isat: Current at which the inductance drops approximately 30% from its initial value without current
I_{rms}: Current that causes the temperature to rise ($\Delta T=40^\circ\text{C}$) from 25°C ambient. Part temperature (ambient + temp rise) should not exceed 125°C

Schematic



Recommended Pad Layout



| A(mm) | B(mm) | C(mm) |
|-------|-------|-------|
| 3.7 | 1.39 | 4.5 |

Physical

Packaging: 1500 pieces per 13 inch reel
Marking: EIA Code

Current vs. Inductance

