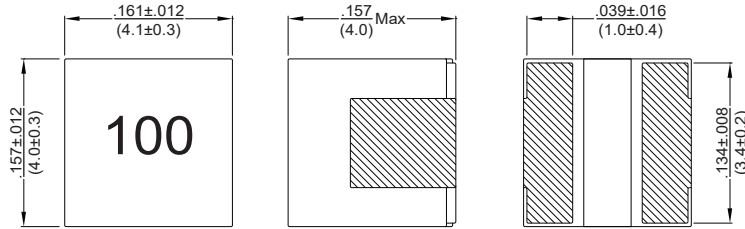




# SMD Shielded Power Choke

# PCHC440

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



Allied Part Number	Inductance ( $\mu\text{H}$ ) $\pm 20\%$	Test Frequency (KHz)	DCR (m $\Omega$ )		Isat (A) Typ.	Irms (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.

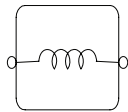
### Features

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

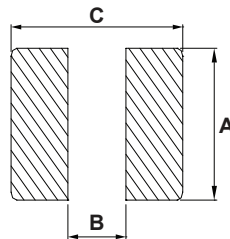
### Electrical

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

### 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

