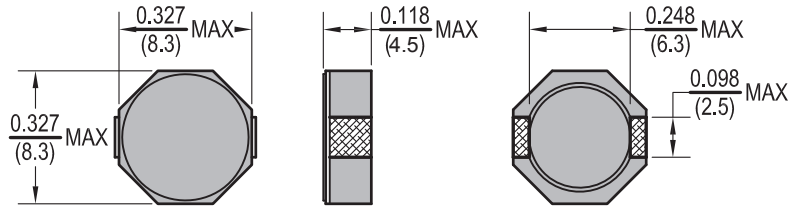




# Shielded Power Chip Inductor PCS8D43

Dimensions: Inches  
(mm)



Allied Part Number	Inductance (μH)	Tolerance (%)	Test Freq. KHz, 0.1V	DCR (mΩ) Max.	Rated Current (A) Max
PCS8D43-R68N-RC	.68	30	100	9.5	9.00
PCS8D43-1R2N-RC	1.2	30	100	12.2	8.00
PCS8D43-2R0N-RC	2.0	30	100	14	7.00
PCS8D43-3R9N-RC	3.9	30	100	19	5.90
PCS8D43-4R7N-RC	4.7	30	100	22	5.60
PCS8D43-6R8N-RC	6.8	30	100	25	4.40
PCS8D43-100N-RC	10	30	100	36	4.00
PCS8D43-150N-RC	15	30	100	53	2.90
PCS8D43-220N-RC	22	30	100	75	2.60
PCS8D43-330N-RC	33	30	100	125	2.20
PCS8D43-470N-RC	47	30	100	150	1.80
PCS8D43-680N-RC	68	30	100	240	1.50
PCS8D43-101N-RC	100	30	100	360	1.30

Tolerance: also available in: K=10% and M=20%  
All specifications subject to change without notice.

### Features

- SMD Power Inductor
- Magnetically shielded
- Low DC resistance
- High Current
- Ideal for DC-DC converter applications

### Electrical

**Inductance Range:** .68μH to 100μH, Available in additional values  
**Tolerance:** 30% over entire range  
 Also, available in tighter tolerances  
**Operating Temp:** -40°C to +125°C  
**Storage Temp:** -40°C ~ +125°C  
**Rated Current:** Current at which inductance drop by no more than 35% of initial value or the temperature has risen by 40°C which ever occurs first

### Resistance to Soldering Heat

Pre-Heat 150°C, 1 Min.  
**Solder Composition:** Sn/Ag3.0/Cu0.5  
**Solder Temp:** 260°C +/- 5°C for 10 sec. +/- 1 sec.

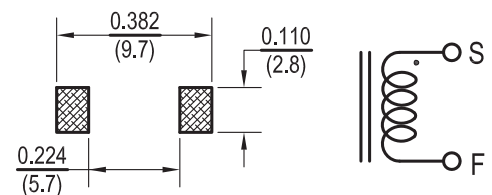
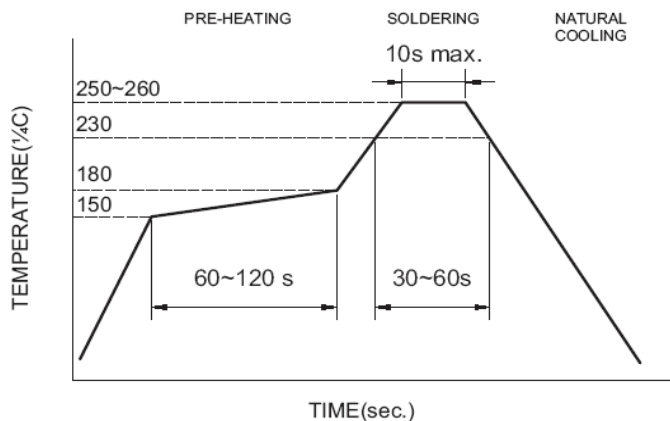
### Test Equipment

(L): HP4287 LCR Meter or equal  
 (RDC): CH502BC or equal  
 (Current): VR126G / 7220 Meter

### Physical

**Packaging:** 800 pieces per 13 inch reel.  
**Marking:** EIA Inductance Code

### Recommended Reflow Solder Profile



PCB Layout

Schematic