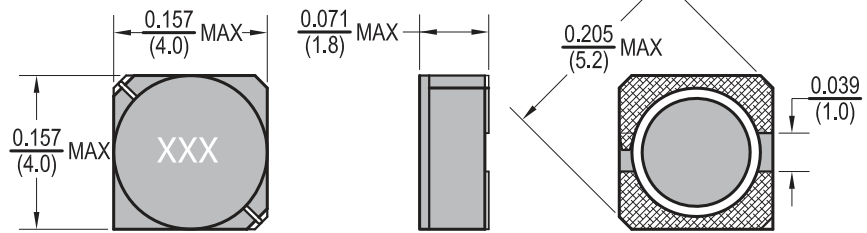




# Power Chip Shielded Inductors PCS3D16



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



Allied Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Test Freq. KHz, 0.1V	DCR ( $\Omega$ )	Rated Current (A)
PCS3D16-1R0T-RC	1.0	30	100	0.040	1.60
PCS3D16-1R5T-RC	1.5	30	100	0.052	1.55
PCS3D16-2R2T-RC	2.2	30	100	0.072	1.20
PCS3D16-3R3T-RC	3.3	30	100	0.085	1.10
PCS3D16-3R6T-RC	3.6	30	100	0.090	0.95
PCS3D16-4R7T-RC	4.7	30	100	0.105	0.90
PCS3D16-6R8T-RC	6.8	30	100	0.170	0.73
PCS3D16-100T-RC	10	30	100	0.210	0.55
PCS3D16-150T-RC	15	30	100	0.295	0.45
PCS3D16-220T-RC	22	30	100	0.430	0.40
PCS3D16-270T-RC	27	30	100	0.620	0.35
PCS3D16-330T-RC	33	30	100	0.675	0.32
PCS3D16-680T-RC	68	30	100	1.700	0.18
PCS3D16-101T-RC	100	30	100	2.750	0.13

All specifications subject to change without notice.

### Features

- Magnetically Shielded
- Low DC Resistance
- High Energy Storage
- Low Energy Loss
- Suitable for pick and place

### Electrical

**Inductance Range:** 1.0 $\mu\text{H}$  to 100 $\mu\text{H}$   
**Tolerance:** 30% over entire range, some values available in tighter tolerances  
**Test Frequency:** 100KHz, 0.1V  
**Operating Temp:** -30 $^{\circ}\text{C}$  ~ 100 $^{\circ}\text{C}$   
**Rated Current:** Inductance Drop 35% Typ. at rated current or Temp Rise  $\Delta T=40^{\circ}\text{C}$ . Which ever is lower.

### Resistance to Soldering Heat

Pre-Heat 150 $^{\circ}\text{C}$ , 1 Min.  
**Solder Composition:** Sn/Ag3.0/Cu0.5  
**Solder Temp:** 260 $^{\circ}\text{C}$  +/- 5 $^{\circ}\text{C}$   
**Immersion time:** 10 sec. +/- 1 sec.

### Test Equipment

**(L):** HP 4192A LF Impedance Analyzer  
**(RDC):** Chen Hwa 502  
**(IDC):** Chen Hwa 1061 + Chen Hwa 301A or HP4284A + HP42841A

### Physical

**Packaging:** 1000 pieces per 13 inch reel.  
**Marking:** EIA Inductance Code.