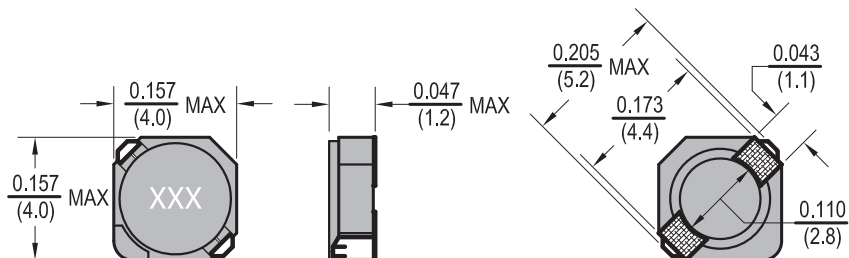




# Power Chip Shielded Inductors PCS3D11



Dimensions: Inches  
(mm)



Allied Part Number	Inductance (μH)	Tolerance (%)	Test Freq. KHz, 1v	DCR Max. (Ω)	Rated Current (A)	I <sub>rms</sub> A Typ.
PCS3D11-2R7T-RC	2.7	30	100	0.078	0.53	1.82
PCS3D11-4R7T-RC	4.7	30	100	0.123	0.40	1.38
PCS3D11-6R8T-RC	6.8	30	100	0.180	0.34	1.05
PCS3D11-8R2T-RC	8.2	30	100	0.204	0.32	0.93
PCS3D11-100T-RC	10	30	100	0.240	0.28	0.90
PCS3D11-120T-RC	12	30	100	0.276	0.25	0.81
PCS3D11-150T-RC	15	30	100	0.372	0.23	0.68
PCS3D11-180T-RC	18	30	100	0.468	0.21	0.58
PCS3D11-220T-RC	22	30	100	0.540	0.19	0.53
PCS3D11-270T-RC	27	30	100	0.726	0.17	0.48
PCS3D11-330T-RC	33	30	100	0.822	0.15	0.41
PCS3D11-390T-RC	39	30	100	0.942	0.14	0.40

All specifications subject to change without notice.

## Features

- Shielded SMD Power Inductor
- Available in magnetically shielded
- Low DC resistance
- Ideal for DC-DC converter applications

## Electrical

**Inductance Range:** 2.7μH to 39μH  
**Tolerance:** 30% over entire range  
 Also, available in tighter tolerances  
**Operating Temp:** -30°C ~ +100°C  
**Rated Current:** Current at which inductance drop is equal to 35% typ.  
**I<sub>rms</sub>:** current at which ΔT=40°C temp rise

## 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):** HP4284A  
**(RDC):** Chen Hwa 502BC  
**Rated Current:** HP4284+HP42841A  
**(I<sub>rms</sub>):** HP4284+HP42841A

## Physical

**Packaging:** 1000 pieces per 7 inch reel.  
**Marking:** EIA Inductance Code