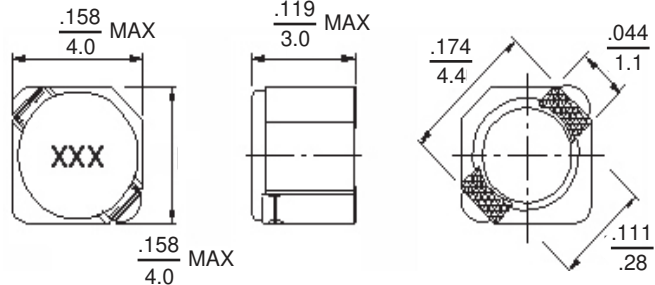




Power Chip Shielded Inductors PCS3D28



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



Features

- Shielded SMD Power Inductor
- Small Foot Print
- Low DC resistance
- Ideal for DC-DC converter applications

Electrical

Inductance Range: 1.0 μ H to 47 μ H

Tolerance: 30% over entire range, tighter tolerances available.

Operating Temp: -30°C ~ +100°C

IDC: Current at which inductance drops by 35% of initial value.

I_{rms} Current: $\Delta T=40^{\circ}\text{C}$

Allied Part Number	Inductance (μ H)	Tolerance (%)	Test Freq. KHz, 1V	DCR Max. (Ω)	Rated Current (A)	I _{rms} (A) Typ
PCS3D28-1R0T-RC	1.0	30	100	0.045	2.80	2.50
PCS3D28-3R3T-RC	3.3	30	100	0.0721	2.00	1.85
PCS3D28-4R7T-RC	4.7	30	100	0.0883	1.65	1.62
PCS3D28-6R8T-RC	6.8	30	100	0.119	1.24	1.32
PCS3D28-100T-RC	10	30	100	0.145	1.05	1.18
PCS3D28-150T-RC	15	30	100	0.213	0.90	1.02
PCS3D28-220T-RC	22	30	100	0.335	0.76	0.74
PCS3D28-330T-RC	33	30	100	0.481	0.58	0.63
PCS3D28-470T-RC	47	30	100	0.599	0.48	0.56

All specifications subject to change without notice.

Resistance to Soldering Heat

Pre-Heat 150°C, 1 min.

Solder Temp: 260°C \pm 5°C for 10sec \pm 1sec.

Solder Composition: Sn/Ag3.0/Cu0.5

Test Equipment

(L): HP 4284A

(RDC): CHEN HWA502

(Rated Current): HP4284+HP4284A OR

CHEN HWA 1061+ CHEN HWA 301A

(I_{rms} Current): HP4284+HP4284A OR

CHEN HWA 1061+ CHEN HWA 301A

Physical

Packaging: 500 pieces per 7 inch reel

Marking: EIA Inductance Code