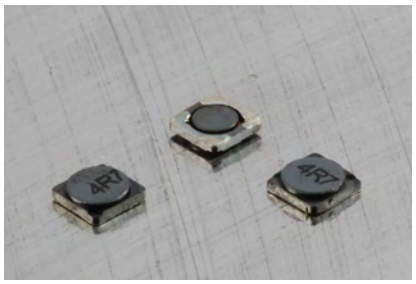
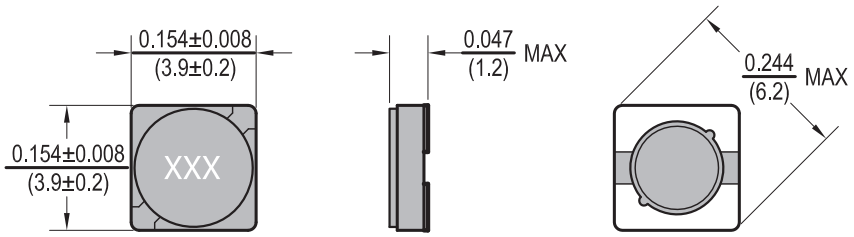
RoHS

Power Chip Shielded Inductors PCS3D12



Dimensions: Inches / (mm)



Allied Part Number	Inductance (µh)	Tolerance (%)	Test Freq. KHz, 0.1V	DCR Max. (Ω)	Rated Current (A)
PCS3D12-1R0T-RC	1.0	30	10	.040	1.54
PCS3D12-1R5T-RC	1.5	30	10	.064	1.32
PCS3D12-2R2T-RC	2.2	30	10	.084	1.12
PCS3D12-3R3T-RC	3.3	30	10	.122	0.90
PCS3D12-4R7T-RC	4.7	30	10	.172	0.72
PCS3D12-5R6T-RC	5.6	30	10	.191	0.66
PCS3D12-6R8T-RC	6.8	30	10	.218	0.60
PCS3D12-8R2T-RC	8.2	30	10	.255	0.57
PCS3D12-100T-RC	10	30	10	.408	0.49
PCS3D12-120T-RC	12	30	10	.462	0.47
PCS3D12-150T-RC	15	30	10	.502	0.41
PCS3D12-180T-RC	18	30	10	.573	0.37
PCS3D12-220T-RC	22	30	10	.801	0.34
PCS3D12-270T-RC	27	30	10	1.207	0.30
PCS3D12-330T-RC	33	30	10	1.358	0.28
PCS3D12-390T-RC	39	30	10	1.911	0.23

All specifications subject to change wtihout notice.

Features

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

Electrical

Inductance Range: 1.0µh ~ 39µh
Tolerance: 30% over entire range
Operating Temp: -30ºC ~ 100ºC
Rated Current: Current at which Inductance drops by 30% of initial value or ΔT=40ºC lower, which ever is lower.

Resistance to Soldering Heat

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

Test Equipment

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

Physical

Packaging: 1500 pieces per 7 inch reel.
Marking: EIA Inductance Code.