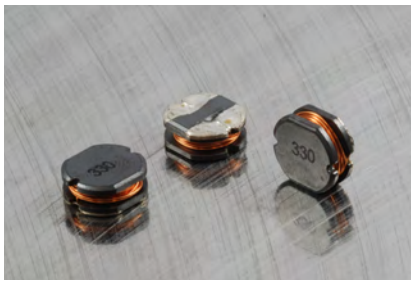
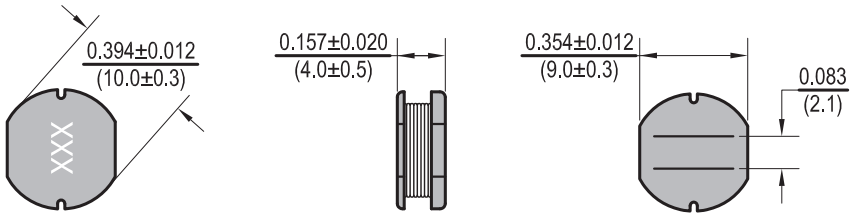
RoHS

Power Chip Inductors PC1004

Dimensions: Inches (mm)





Allied Part Number	Inductance (µh)	Tolerance (%)	Test Freq.	DCR Max. (Ω)	IDC Max. (A)
PC1004-1R0M-RC	1.0	20	100KHz,1V	.009	6.00
PC1004-3R8M-RC	3.8	20	7.96MHz,1V	0.02	4.20
PC1004-100M-RC	10	20	2.52MHz,1V	0.05	2.38
PC1004-120M-RC	12	20	2.52MHz,1V	0.06	2.13
PC1004-150M-RC	15	20	2.52MHz,1V	0.07	1.87
PC1004-180M-RC	18	20	2.52MHz,1V	0.08	1.73
PC1004-220M-RC	22	20	2.52MHz,1V	0.09	1.60
PC1004-270M-RC	27	20	2.52MHz,1V	0.10	1.44
PC1004-330K-RC	33	10	2.52MHz,1V	0.12	1.26
PC1004-390K-RC	39	10	2.52MHz,1V	0.15	1.20
PC1004-470K-RC	47	10	2.52MHz,1V	0.17	1.10
PC1004-560K-RC	56	10	2.52MHz,1V	0.20	1.01
PC1004-680K-RC	68	10	2.52MHz,1V	0.22	0.91
PC1004-820K-RC	82	10	2.52MHz,1V	0.30	0.85
PC1004-101K-RC	100	10	1KHz,1V	0.34	0.74
PC1004-121K-RC	120	10	1KHz,1V	0.40	0.69
PC1004-151K-RC	150	10	1KHz,1V	0.54	0.61
PC1004-181K-RC	180	10	1KHz,1V	0.62	0.56
PC1004-221K-RC	220	10	1KHz,1V	0.72	0.53
PC1004-271K-RC	270	10	1KHz,1V	0.95	0.45
PC1004-331K-RC	330	10	1KHz,1V	1.10	0.42
PC1004-391K-RC	390	10	1KHz,1V	1.24	0.38
PC1004-471K-RC	470	10	1KHz,1V	1.53	0.35
PC1004-561K-RC	560	10	1KHz,1V	1.90	0.32

All specifications subject to change without notice.

Features

- Unshielded SMD Power Inductor
- Available in magnetically shielded
- Suitable for large currents
- Ideal for DC-DC converter applications

Electrical

Inductance Range: 10µh to 560µh
Tolerance: Standard tolerance as shown. Most values available in tighter tolerances.
Test Frequency: As noted
Operating Temp: -40ºC ~ +85ºC
IDC: Current at which Inductance drops 10% of original value with a ∆T= 40 C whichever 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): HP4192A LF Impedence Analyzer
(RDC): Chen Hwa 502BC
(IDC): HP4284A with HP42841A or Chen Hwa 1061 + Chen Hwa 301A

Physical

Packaging: 700 pieces per 13 inch reel.
Marking: EIA Inductance Code.