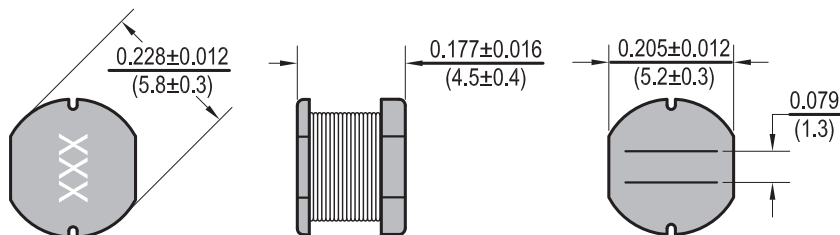


# PC0504 Power Chip Inductors



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



## Features

- Unshielded SMD low cost design
- Designed for high current applications
- Accurate and consistent dimensions for auto insertion
- Excellent for use in DC-DC converter application
- High saturation for surface mounting

## Electrical

**Inductance Range:** 2.2 $\mu$ h to 1000 $\mu$ h

**Tolerance:** 20% over entire range

Also available in tighter tolerances

**Test Frequency:** (L) as specified

**Operating Temp:** -55°C ~ +125°C

**IDC:** Current at which Inductance drops 10% of original value with a  $\Delta T = 40$  C whichever is lower.

## Resistance to Soldering Heat

**Test Method:** Pre-Heat 150°C, 1 Min.

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

**Solder Temp:** 260°C +/- 5°C for 10 sec  $\pm$  1 sec.

## Test Equipment

**(L):** HP4192A Impedence Analyzer

**(DCR):** Chen Hwa 502BC

**(IDC):** HP4284A with HP42841A or CH1061 with CH301A

## Physical

**Packaging:** 1500 pieces per 13 inch reel.

**Marking:** EIA Inductance Code.

Allied Part Number	Inductance ( $\mu$ h)	Tolerance (%)	Test Freq. (MHz) <sup>1</sup> V	RDC $\Omega$ Max.	IDC ( )
PC0504-2R2M-RC	2.2	20	7.96	0.023	3.20
PC0504-3R3M-RC	3.3	20	7.96	.0314	2.59
PC0504-4R7M-RC	4.7	20	7.96	.0372	2.30
PC0504-8R2M-RC	8.2	20	7.96	.0594	1.70
PC0504-100M-RC	10	20	2.52	0.100	1.44
PC0504-120M-RC	12	20	2.52	0.120	1.40
PC0504-150M-RC	15	20	2.52	0.140	1.30
PC0504-180M-RC	18	20	2.52	0.150	1.23
PC0504-220M-RC	22	20	2.52	0.180	1.11
PC0504-270M-RC	27	20	2.52	0.200	0.97
PC0504-330M-RC	33	20	2.52	0.230	0.88
PC0504-390M-RC	39	20	2.52	0.320	0.80
PC0504-470M-RC	47	20	2.52	0.370	0.72
PC0504-560M-RC	56	20	2.52	0.420	0.68
PC0504-680M-RC	68	20	2.52	0.460	0.61
PC0504-820M-RC	82	20	2.52	0.600	0.58
PC0504-101M-RC	100	20	1	0.700	0.52
PC0504-121M-RC	120	20	1	0.930	0.48
PC0504-151M-RC	150	20	1	1.100	0.40
PC0504-181M-RC	180	20	1	1.380	0.38
PC0504-221M-RC	220	20	1	1.570	0.35
PC0504-271M-RC	270	20	1	1.850	0.29
PC0504-331M-RC	330	20	1	2.000	0.28
PC0504-391M-RC	390	20	1	2.600	0.26
PC0504-471M-RC	470	20	1	3.000	0.12
PC0504-561M-RC	560	20	1	4.190	0.10
PC0504-681M-RC	680	20	1	4.440	0.08
PC0504-821M-RC	820	20	1	5.120	0.05
PC0504-102M-RC	1000	20	1	10.00	0.03

All specifications subject to change without notice.