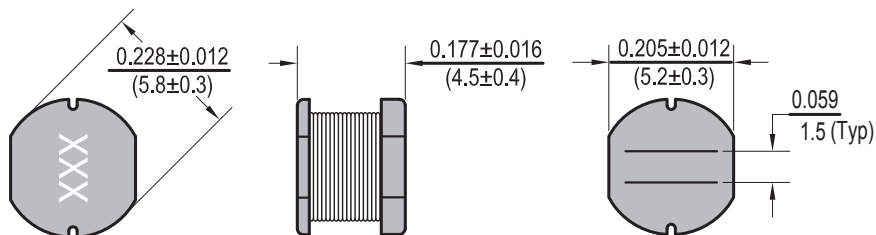


# PC0504 Power Chip Inductors



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:** 1 $\mu$ H to 1000 $\mu$ H

**Tolerance:** Available in tighter tolerances.

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

**Operating Temp:** -55°C ~ +125°C

**IDC:** Current at which the temperature has risen by 40°C or when the inductance has dropped by 35% of initial value without current

## 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): 4284A (HP)

(DCR): HP4338B

(IDC): 3260B & 3265B

## Physical

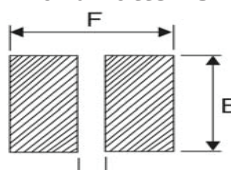
**Packaging:** 1500 pieces per reel.

**Marking:** EIA Inductance Code.

Allied Part Number	Inductance ( $\mu$ H)	Tolerance (%) <sup>*</sup>	Test Freq. (KHz) <sup>1V</sup>	DCR m $\Omega$ Max	IDC (A) Max
PC0504-1R0_-RC	1	M,N	100	0.015	5.90
PC0504-1R2_-RC	1.2	M,N	100	0.020	5.20
PC0504-1R5_-RC	1.5	M,N	100	0.025	4.70
PC0504-1R8_-RC	1.8	M,N	100	0.030	4.00
PC0504-2R2_-RC	2.2	M,N	100	0.035	3.80
PC0504-2R7_-RC	2.7	M,N	100	0.040	3.40
PC0504-3R3_-RC	3.3	M,N	100	0.045	3.30
PC0504-3R9_-RC	3.9	M,N	100	0.050	2.90
PC0504-4R7_-RC	4.7	M,N	100	0.060	2.80
PC0504-5R6_-RC	5.6	M,N	100	0.070	2.40
PC0504-6R8_-RC	6.8	M,N	100	0.080	2.10
PC0504-8R2_-RC	8.2	M,N	100	0.090	2.00
PC0504-100_-RC	10	K,M,N	100	0.100	1.44
PC0504-120_-RC	12	K,M,N	100	0.120	1.40
PC0504-150_-RC	15	K,M,N	100	0.140	1.30
PC0504-180_-RC	18	K,M,N	100	0.150	1.23
PC0504-220_-RC	22	K,M,N	100	0.180	1.11
PC0504-270_-RC	27	K,M,N	100	0.200	0.97
PC0504-330_-RC	33	K,M,N	100	0.230	0.88
PC0504-390_-RC	39	K,M,N	100	0.320	0.80
PC0504-470_-RC	47	K,M,N	100	0.370	0.72
PC0504-560_-RC	56	K,M,N	100	0.420	0.68
PC0504-680_-RC	68	K,M,N	100	0.460	0.61
PC0504-820_-RC	82	K,M,N	100	0.600	0.58
PC0504-101_-RC	100	K,M,N	100	0.700	0.52
PC0504-121_-RC	120	K,M,N	100	0.930	0.48
PC0504-151_-RC	150	K,M,N	100	1.100	0.40
PC0504-181_-RC	180	K,M,N	100	1.380	0.38
PC0504-221_-RC	220	K,M,N	100	1.570	0.35
PC0504-271_-RC	270	K,M,N	100	1.650	0.32
PC0504-331_-RC	330	K,M,N	100	1.700	0.28
PC0504-391_-RC	390	K,M,N	100	1.800	0.26
PC0504-471_-RC	470	K,M,N	100	2.300	0.23
PC0504-561_-RC	560	K,M,N	100	2.500	0.20
PC0504-681_-RC	680	K,M,N	100	3.000	0.19
PC0504-821_-RC	820	K,M,N	100	4.500	0.16
PC0504-102_-RC	1000	K,M,N	100	4.800	0.14

<sup>\*</sup>Please insert the letter for desired tolerance: K=10% M=20% N=30%  
All specifications subject to change without notice.

## Land Patterns



Dimensions: Inches/mm

F(mm)	.256/6.50
G(mm)	.067/1.70
E(mm)	.216/5.50