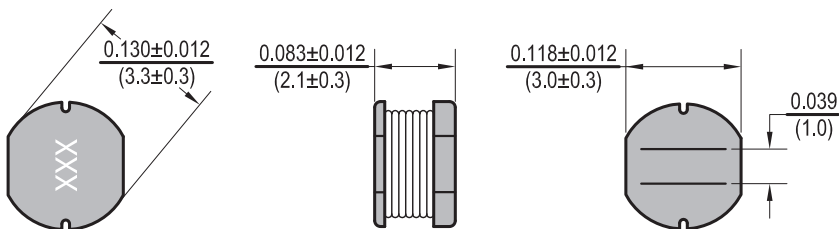




# Power Chip Inductors PC03021



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



Allied Part Number	Inductance (μh)	Tolerance (%)	Test Freq.	DCR (Ω)	IDC (A)
PC03021-1R0M-RC	1.0	20	7.96MHz,1V	0.07	2.08
PC03021-1R4M-RC	1.4	20	7.96MHz,1V	0.09	1.86
PC03021-1R5M-RC	1.5	20	7.96MHz,1V	0.11	1.80
PC03021-1R8M-RC	1.8	20	7.96MHz,1V	0.11	1.80
PC03021-2R2M-RC	2.2	20	7.96MHz,1V	0.13	1.39
PC03021-2R7M-RC	2.7	20	7.96MHz,1V	0.14	1.32
PC03021-3R3M-RC	3.3	20	7.96MHz,1V	0.17	1.25
PC03021-3R9M-RC	3.9	20	7.96MHz,1V	0.19	1.20
PC03021-4R7M-RC	4.7	20	7.96MHz,1V	0.21	1.13
PC03021-5R6M-RC	5.6	20	7.96MHz,1V	0.22	0.91
PC03021-6R8M-RC	6.8	20	7.96MHz,1V	0.25	0.85
PC03021-7R0M-RC	7.0	20	7.96MHz,1V	0.28	0.82
PC03021-8R2M-RC	8.2	20	7.96MHz,1V	0.28	0.82
PC03021-100M-RC	10	20	2.52MHz,1V	0.32	0.74
PC03021-120M-RC	12	20	2.52MHz,1V	0.35	0.64
PC03021-150M-RC	15	20	2.52MHz,1V	0.40	0.60
PC03021-180M-RC	18	20	2.52MHz,1V	0.48	0.54
PC03021-220M-RC	22	20	2.52MHz,1V	0.58	0.50
PC03021-270M-RC	27	20	2.52MHz,1V	0.65	0.43
PC03021-330M-RC	33	20	2.52MHz,1V	0.80	0.40
PC03021-390M-RC	39	20	2.52MHz,1V	0.90	0.37
PC03021-470M-RC	47	20	2.52MHz,1V	1.19	0.36
PC03021-500M-RC	50	20	2.52MHz,1V	1.22	0.33
PC03021-560M-RC	56	20	2.52MHz,1V	1.27	0.31
PC03021-680M-RC	68	20	2.52MHz,1V	1.73	0.30
PC03021-750M-RC	75	20	2.52MHz,1V	1.90	0.29
PC03021-820M-RC	82	20	2.52MHz,1V	1.99	0.28
PC03021-101M-RC	100	20	1KHz,1V	2.52	0.25
PC03021-121M-RC	120	20	1KHz,1V	2.90	0.20
PC03021-151M-RC	150	20	1KHz,1V	3.36	0.19
PC03021-181M-RC	180	20	1KHz,1V	5.10	0.17
PC03021-221M-RC	220	20	1KHz,1V	5.80	0.16
PC03021-271M-RC	270	20	1KHz,1V	7.80	0.14

## Features

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

## Electrical

**Inductance Range:** 1μh to 270μh

**Tolerance:** 20% over entire range

Also available in tighter tolerances

**Operating Temp:** -40°C ~ +85°C

**IDC:** Current at which Inductance drops 10% of original value with a ΔT= 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 ± 1 sec.

## Test Equipment

**(L):** HP4192A LF Impedance Analyzer

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

**(IDC):** HP4284A with HP42841A or Chen Hwa 1061 + Chen Hwa 301A

## Physical

**Packaging:** 3000 pieces per 13 inch reel.

**Marking:** EIA Inductance Code