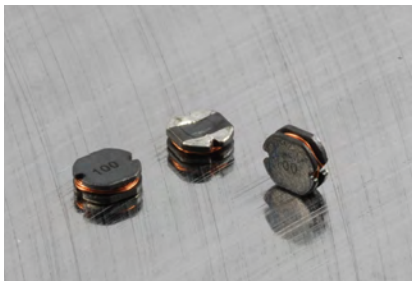
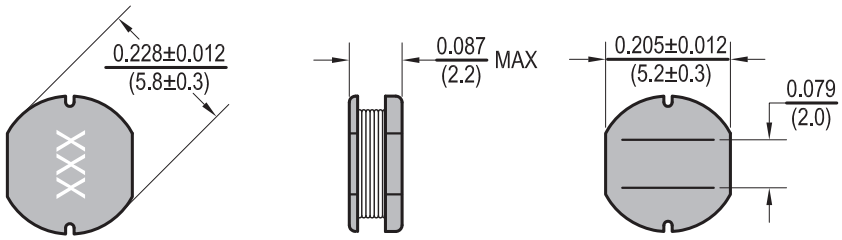
Power Chip Inductors PC0501

Dimensions: Inches / (mm)





Allied Part Number	Inductance (µh)	Tolerance (%)	Test Freq.	DCR (Ω) Max.	IDC (A)
PC0501-1R0M-RC	1.0	20	7.96MHz,1V	.034	4.00
PC0501-1R4M-RC	1.4	20	7.96MHz,1V	.048	3.60
PC0501-1R8M-RC	1.8	20	7.96MHz,1V	.062	3.00
PC0501-2R2M-RC	2.2	20	7.96MHz,1V	.064	2.65
PC0501-2R7M-RC	2.7	20	7.96MHz,1V	.078	2.20
PC0501-3R3M-RC	3.3	20	7.96MHz,1V	.097	2.11
PC0501-3R9M-RC	3.9	20	7.96MHz,1V	.105	2.00
PC0501-4R7M-RC	4.7	20	7.96MHz,1V	.134	1.80
PC0501-5R6M-RC	5.6	20	7.96MHz,1V	.170	1.60
PC0501-6R8M-RC	6.8	20	7.96MHz,1V	.187	1.50
PC0501-8R2M-RC	8.2	20	7.96MHz,1V	.225	1.30
PC0501-100M-RC	10	20	2.52MHz,1V	.255	1.10
PC0501-120M-RC	12	20	2.52MHz,1V	.292	1.05
PC0501-150M-RC	15	20	2.52MHz,1V	.360	1.00
PC0501-180M-RC	18	20	2.52MHz,1V	.430	0.95
PC0501-220M-RC	22	20	2.52MHz,1V	4.92	0.90
PC0501-270M-RC	27	20	2.52MHz,1V	.603	0.77
PC0501-330K-RC	33	10	2.52MHz,1V	.796	0.76
PC0501-390K-RC	39	10	2.52MHz,1V	.897	0.75
PC0501-470K-RC	47	10	2.52MHz,1V	1.02	0.73
PC0501-500K-RC	50	10	2.52MHz,1V	1.04	0.55
PC0501-560K-RC	56	10	2.52MHz,1V	1.164	0.52
PC0501-680K-RC	68	10	2.52MHz,1V	1.22	0.50
PC0501-750K-RC	75	10	2.52MHz,1V	1.34	0.40
PC0501-820K-RC	82	10	2.52MHz,1V	1.57	0.36
PC0501-101K-RC	100	10	1KHz,1V	1.80	0.30
PC0501-121K-RC	120	10	1KHz,1V	2.00	0.26
PC0501-151K-RC	150	10	1KHz,1V	2.80	0.25
PC0501-181K-RC	180	10	1KHz,1V	3.15	0.21
PC0501-221K-RC	220	10	1KHz,1V	4.40	0.18
PC0501-271K-RC	270	10	1KHz,1V	6.40	0.16
PC0501-301K-RC	300	10	1KHz,1V	6.75	0.15
PC0501-331K-RC	330	10	1KHz,1V	7.20	0.14
PC0501-391K-RC	390	10	1KHz,1V	8.4	0.13
PC0501-461K-RC	460	10	1KHz,1V	12.0	0.07
PC0501-471K-RC	470	10	1KHz,1V	12.4	0.05
PC0501-561K-RC	560	10	1KHz,1V	13.0	0.14
PC0501-681K-RC	680	10	1KHz,1V	17.0	0.47
PC0501-821K-RC	820	10	1KHz,1V	19.5	0.46
PC0501-102K-RC	1000	10	1KHz,1V	24.0	0.45

All specifications subject to change without notice.

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: 1µh to 1000µh
Tolerance: 20% over entire range
Also available in tighter tolerances
Test Frequency: (L) as specified
Operating Temp: -40ºC ~ +85ºC
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 150ºC, 1 Min.
Solder Composition: Sn/Ag3.0/Cu0.5
Solder Temp: 260ºC +/- 5ºC for 10 sec ± 1 sec.

Test Equipment

(L): HP4192A Impedence Analyzer
(DCR): Chen Hwa 502BC
(IDC): HP4284A with HP42841A or CH1061 with CH301A

Physical

Packaging: 2000 pieces per 13 inch reel.
Marking: EIA Inductance Code.