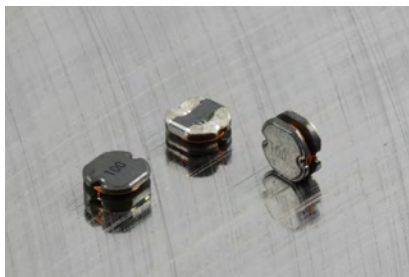
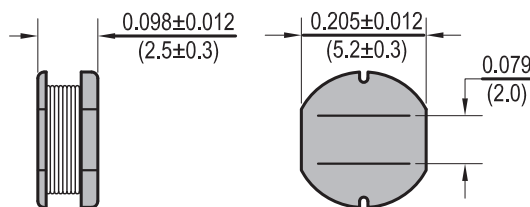
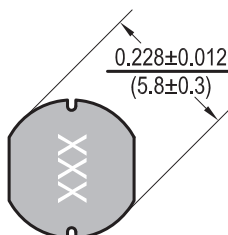




Power Chip Inductors PC0502



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



Allied Part Number	Inductance (μH)	Tolerance (%)	Test Freq.	DCR (Ω)	IDC (A)
PC0502-1R0M-RC	1.0	20	7.96MHz,1V	0.03	4.50
PC0502-1R4M-RC	1.4	20	7.96MHz,1V	0.04	4.00
PC0502-1R8M-RC	1.8	20	7.96MHz,1V	0.05	3.30
PC0502-2R2M-RC	2.2	20	7.96MHz,1V	0.06	2.94
PC0502-2R7M-RC	2.7	20	7.96MHz,1V	0.07	2.50
PC0502-3R3M-RC	3.3	20	7.96MHz,1V	0.08	2.35
PC0502-3R9M-RC	3.9	20	7.96MHz,1V	0.09	2.20
PC0502-4R7M-RC	4.7	20	7.96MHz,1V	0.14	2.00
PC0502-5R6M-RC	5.6	20	7.96MHz,1V	0.15	1.80
PC0502-6R8M-RC	6.8	20	7.96MHz,1V	0.16	1.70
PC0502-8R2M-RC	8.2	20	7.96MHz,1V	0.17	1.40
PC0502-100M-RC	10	20	2.52MHz,1V	0.18	1.20
PC0502-120M-RC	12	20	2.52MHz,1V	0.20	1.18
PC0502-150M-RC	15	20	2.52MHz,1V	0.22	1.15
PC0502-180M-RC	18	20	2.52MHz,1V	0.25	1.10
PC0502-220M-RC	22	20	2.52MHz,1V	0.35	1.00
PC0502-270M-RC	27	20	2.52MHz,1V	0.45	0.86
PC0502-330K-RC	33	10	2.52MHz,1V	0.56	0.76
PC0502-390K-RC	39	10	2.52MHz,1V	0.69	0.75
PC0502-470K-RC	47	10	2.52MHz,1V	0.72	0.73
PC0502-560K-RC	56	10	2.52MHz,1V	0.84	0.55
PC0502-680K-RC	68	10	2.52MHz,1V	0.90	0.52
PC0502-820K-RC	82	10	2.52MHz,1V	1.20	0.50
PC0502-101K-RC	100	10	1KHz,1V	1.30	0.40
PC0502-121K-RC	120	10	1KHz,1V	1.38	0.36
PC0502-151K-RC	150	10	1KHz,1V	1.81	0.30
PC0502-181K-RC	180	10	1KHz,1V	1.95	0.26
PC0502-221K-RC	220	10	1KHz,1V	3.00	0.25
PC0502-271K-RC	270	10	1KHz,1V	3.20	0.21
PC0502-331K-RC	330	10	1KHz,1V	3.82	0.18
PC0502-391K-RC	390	10	1KHz,1V	4.68	0.16
PC0502-471K-RC	470	10	1KHz,1V	5.10	0.15
PC0502-561K-RC	560	10	1KHz,1V	8.50	0.14
PC0502-681K-RC	680	10	1KHz,1V	10.0	0.13
PC0502-821K-RC	820	10	1KHz,1V	12.0	0.07
PC0502-102K-RC	1000	10	1KHz,1V	18.0	0.05

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/Q) as specified

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 & Q): HP4192A Impedance 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.