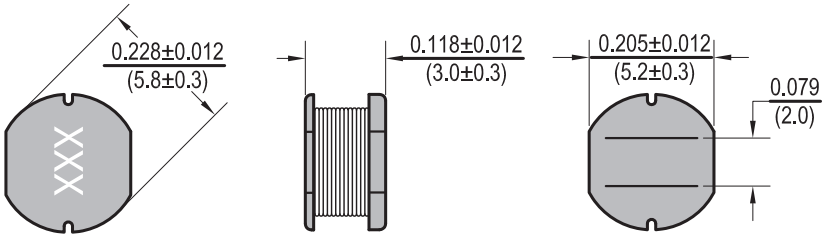
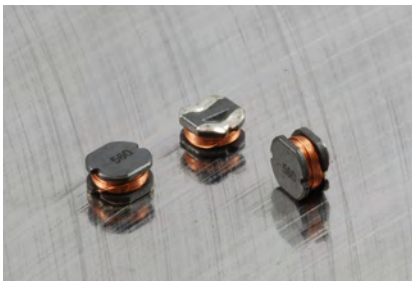
PC0503 Power Chip Inductors

Dimensions: Inches / (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: 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 ΔT= 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.

Allied Part Number	Inductance (µh)	Tolerance (%)	Test Freq. 1v	RDC (Ω) Max.	IDC ( )
PC0503-1R0M-RC	1.0	20	7.96MHz	.03	4.50
PC0503-1R2M-RC	1.2	20	7.96MHz	.03	4.20
PC0503-1R5M-RC	1.5	20	7.96MHz	.03	4.10
PC0503-1R8M-RC	1.8	20	7.96MHz	.03	3.70
PC0503-2R0M-RC	2.0	20	7.96MHz	.03	3.60
PC0503-2R2M-RC	2.2	20	7.96MHz	.03	3.50
PC0503-2R7M-RC	2.7	20	7.96MHz	.04	3.20
PC0503-3R3M-RC	3.3	20	7.96MHz	.05	2.80
PC0503-3R9M-RC	3.9	20	7.96MHz	.06	2.60
PC0503-4R7M-RC	4.7	20	7.96MHz	.07	2.50
PC0503-5R6M-RC	5.6	20	7.96MHz	.08	2.40
PC0503-6R8M-RC	6.8	20	7.96MHz	.09	2.20
PC0503-8R2M-RC	8.2	20	7.96MHz	.10	2.00
PC0503-100M-RC	10	20	2.52MHz	.12	1.80
PC0503-120M-RC	12	20	2.52MHz	.13	1.75
PC0503-150M-RC	15	20	2.52MHz	.15	1.70
PC0503-180M-RC	18	20	2.52MHz	.18	1.60
PC0503-220M-RC	22	20	2.52MHz	.22	1.50
PC0503-270M-RC	27	20	2.52MHz	.26	1.40
PC0503-330M-RC	33	20	2.52MHz	.33	1.10
PC0503-390M-RC	39	20	2.52MHz	.42	1.00
PC0503-470M-RC	47	20	2.52MHz	.50	0.90
PC0503-560M-RC	56	20	2.52MHz	.55	0.85
PC0503-680M-RC	68	20	2.52MHz	.65	0.80
PC0503-820M-RC	82	20	2.52MHz	0.8	0.65
PC0503-101M-RC	100	20	1KHz	0.9	0.60
PC0503-121M-RC	120	20	1KHz	1.0	0.58
PC0503-151M-RC	150	20	1KHz	1.3	0.43
PC0503-181M-RC	180	20	1KHz	1.5	0.41
PC0503-221M-RC	220	20	1KHz	2.0	0.38
PC0503-271M-RC	270	20	1KHz	2.5	0.35
PC0503-331M-RC	330	20	1KHz	3.2	0.28
PC0503-391M-RC	390	20	1KHz	3.5	0.26
PC0503-471M-RC	470	20	1KHz	4.2	0.20
PC0503-561M-RC	560	20	1KHz	4.5	0.19
PC0503-681M-RC	680	20	1KHz	6.5	0.18
PC0503-821M-RC	820	20	1KHz	7.5	0.15
PC0503-102M-RC	1000	20	1KHz	8.0	0.13

All specifications subject to change without notice.