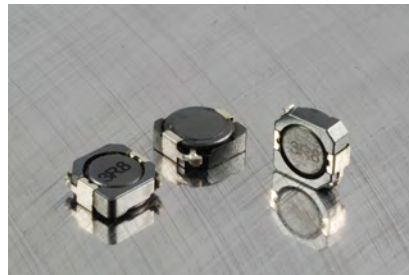
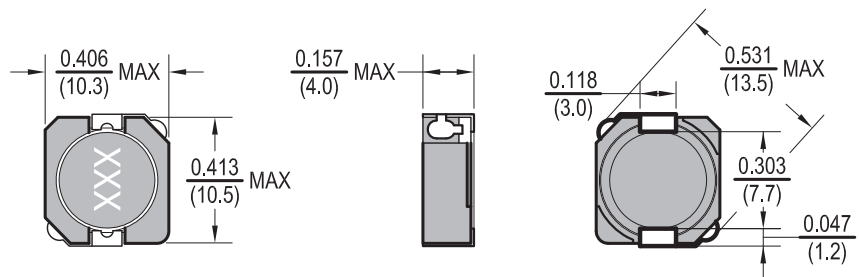




Power Chip Shielded Inductors PCS104



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



| Allied Part Number | Inductance (μh) | Tolerance (%) | Test Freq. KHz, 1V | DCR Max (Ω) | IDC Current (A) |
|--------------------|------------------------------|---------------|--------------------|----------------------|-----------------|
| PCS104-1R0T-RC | 1.0 | 30 | 100 | 0.0075 | 10.5 |
| PCS104-1R5T-RC | 1.5 | 30 | 100 | 0.0081 | 10.0 |
| PCS104-2R2T-RC | 2.2 | 30 | 100 | 0.0105 | 7.5 |
| PCS104-2R5T-RC | 2.5 | 30 | 100 | 0.0105 | 7.5 |
| PCS104-3R3T-RC | 3.3 | 30 | 100 | 0.013 | 6.0 |
| PCS104-3R8T-RC | 3.8 | 30 | 100 | 0.013 | 6.0 |
| PCS104-4R7T-RC | 4.7 | 30 | 100 | 0.018 | 5.7 |
| PCS104-5R2T-RC | 5.2 | 30 | 100 | 0.022 | 5.5 |
| PCS104-5R6T-RC | 5.6 | 30 | 100 | 0.027 | 5.0 |
| PCS104-6R8T-RC | 6.8 | 30 | 100 | 0.027 | 5.0 |
| PCS104-7R0T-RC | 7.0 | 30 | 100 | 0.027 | 4.8 |
| PCS104-100M-RC | 10 | 20 | 100 | 0.038 | 4.4 |
| PCS104-150M-RC | 15 | 20 | 100 | 0.050 | 3.6 |
| PCS104-180M-RC | 18 | 20 | 100 | 0.070 | 3.5 |
| PCS104-220M-RC | 22 | 20 | 100 | 0.073 | 2.9 |
| PCS104-270M-RC | 27 | 20 | 100 | 0.090 | 2.5 |
| PCS104-330M-RC | 33 | 20 | 100 | 0.093 | 2.3 |
| PCS104-390M-RC | 39 | 20 | 100 | 0.128 | 2.1 |
| PCS104-470M-RC | 47 | 20 | 100 | 0.128 | 2.1 |
| PCS104-680M-RC | 68 | 20 | 100 | 0.213 | 1.5 |
| PCS104-101M-RC | 100 | 20 | 100 | 0.304 | 1.35 |
| PCS104-151M-RC | 150 | 20 | 100 | 0.506 | 1.15 |
| PCS104-201M-RC | 200 | 20 | 100 | 0.756 | 0.92 |
| PCS104-221M-RC | 220 | 20 | 100 | 0.756 | 0.92 |
| PCS104-331M-RC | 330 | 20 | 100 | 1.090 | 0.7 |
| PCS104-471M-RC | 470 | 20 | 100 | 1.600 | 0.5 |

All specifications subject to change without notice.

Features

- Shielded SMD Power Inductor
- Available in magnetically shielded
- Low DC resistance
- Ideal for DC-DC converter applications

Electrical

Inductance Range: 1 μh to 470 μh

Tolerance: 1.0 μh ~ 7.0 μh 30%
10 μh ~ 470 μh 20%

Operating Temp: -40°C ~ +85°C

IDC: Current at which inductance drop = 35% typ.

Resistance to Soldering Heat

Pre-Heat 150°C, 1 minute.

Solder Composition: Sn/Ag3.0/Cu0.5

Solder Temp: 260°C \pm 5°C

Test Equipment

(L): HP 4192A LF Impedance Analyzer

(RDC): Chen Hwa 502

(IDC): HP4284A + HP42841A

Physical

Packaging: 1000 pieces per 13 inch reel.

Marking: EIA Inductance Code