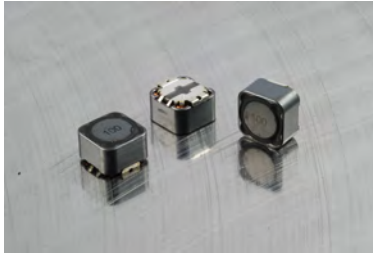
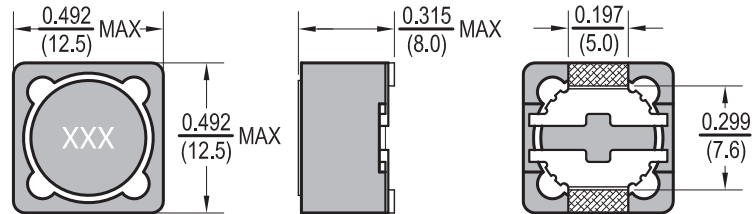




Power Chip Shielded Inductors PCS127



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



| Allied Part Number | Inductance (μh) | Tolerance (%) | Test Freq. KHz, 1V | DCR (Ω) | IDC Current (A) |
|--------------------|-----------------|---------------|--------------------|---------|-----------------|
| PCS127-1R2M-RC | 1.2 | 20 | 100 | 0.0070 | 9.8 |
| PCS127-1R5M-RC | 1.5 | 20 | 100 | 0.0080 | 9.5 |
| PCS127-2R2M-RC | 2.2 | 20 | 100 | 0.0115 | 8.0 |
| PCS127-2R4M-RC | 2.4 | 20 | 100 | 0.0115 | 8.0 |
| PCS127-3R3M-RC | 3.3 | 20 | 100 | 0.0135 | 7.5 |
| PCS127-3R5M-RC | 3.5 | 20 | 100 | 0.0135 | 7.5 |
| PCS127-4R7M-RC | 4.7 | 20 | 100 | 0.0158 | 6.8 |
| PCS127-6R1M-RC | 6.1 | 20 | 100 | 0.0176 | 6.6 |
| PCS127-6R8M-RC | 6.8 | 20 | 100 | 0.02 | 6.2 |
| PCS127-7R6M-RC | 7.6 | 20 | 1 | 0.02 | 5.9 |
| PCS127-100M-RC | 10 | 20 | 1 | 0.0216 | 5.4 |
| PCS127-120M-RC | 12 | 20 | 1 | 0.0243 | 4.9 |
| PCS127-150M-RC | 15 | 20 | 1 | 0.027 | 4.5 |
| PCS127-180M-RC | 18 | 20 | 1 | 0.0392 | 3.9 |
| PCS127-220M-RC | 22 | 20 | 1 | 0.0432 | 3.6 |
| PCS127-270M-RC | 27 | 20 | 1 | 0.0459 | 3.4 |
| PCS127-330M-RC | 33 | 20 | 1 | 0.0648 | 3.0 |
| PCS127-390M-RC | 39 | 20 | 1 | 0.0729 | 2.75 |
| PCS127-470M-RC | 47 | 20 | 1 | 0.10 | 2.50 |
| PCS127-560M-RC | 56 | 20 | 1 | 0.11 | 2.35 |
| PCS127-680M-RC | 68 | 20 | 1 | 0.14 | 2.10 |
| PCS127-820M-RC | 82 | 20 | 1 | 0.16 | 1.95 |
| PCS127-101M-RC | 100 | 20 | 1 | 0.22 | 1.70 |
| PCS127-121M-RC | 120 | 20 | 1 | 0.25 | 1.60 |
| PCS127-151M-RC | 150 | 20 | 1 | 0.28 | 1.42 |
| PCS127-181M-RC | 180 | 20 | 1 | 0.35 | 1.30 |
| PCS127-221M-RC | 220 | 20 | 1 | 0.39 | 1.16 |
| PCS127-271M-RC | 270 | 20 | 1 | 0.56 | 1.06 |
| PCS127-331M-RC | 330 | 20 | 1 | 0.64 | 0.95 |
| PCS127-391M-RC | 390 | 20 | 1 | 0.70 | 0.88 |
| PCS127-471M-RC | 470 | 20 | 1 | 0.98 | 0.79 |
| PCS127-561M-RC | 560 | 20 | 1 | 1.07 | 0.73 |
| PCS127-681M-RC | 680 | 20 | 1 | 1.46 | 0.67 |
| PCS127-821M-RC | 820 | 20 | 1 | 1.64 | 0.60 |
| PCS127-102M-RC | 1000 | 20 | 1 | 1.64 | 0.55 |

Available in tighter tolerances.
All specifications subject to change without notice.

Features

- Magnetically Shielded
- Low DC Resistance
- High Energy Storage
- Low Energy Loss
- Suitable for pick and place

Electrical

Inductance Range: 1.2μh to 1000μh
Tolerance: 20% over entire range
Test Frequency: As specified.
Operating Temp: -40°C ~ 85°C
IDC: Inductance Drop 35% Typ. at rated IDC.

Resistance to Soldering Heat

Pre-Heat 150°C, 1 Min.
Solder Composition: Sn/Ag3.0/Cu0.5
Solder Temp: 260°C +/- 5°C
Immersion time: 10 sec. +/- 1 sec.

Test Equipment

(L): HP 4192A LF Impedance Analyzer
(RDC): Chen Hwa 502
(IDA): Chen Hwa 1061 + Chen Hwa 301A
 or HP4284A + HP42841A

Physical

Packaging: 500 pieces per 13 inch reel.
Marking: EIA Inductance Code.