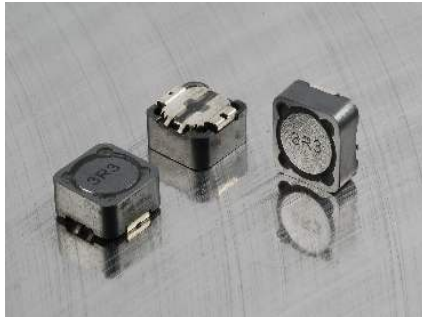


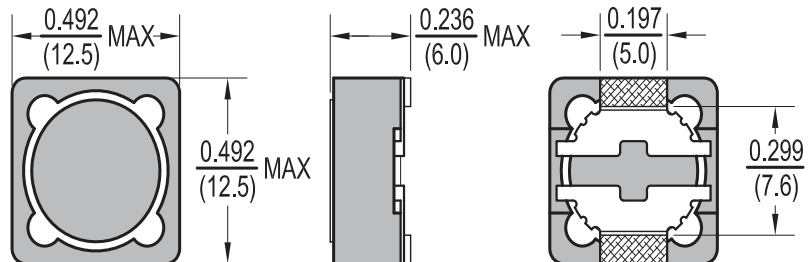


Power Chip Shielded Inductors

PCS125



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



| Allied Part Number | Inductance (μH) | Tolerance (±%) | Test Freq. KHz, 0.25V | DCR (Ω) Max | IDC Current (A) |
|--------------------|-----------------|----------------|-----------------------|-------------|-----------------|
| PCS125-1R3M-RC | 1.3 | 20 | 100 | .012 | 8.00 |
| PCS125-2R1M-RC | 2.1 | 20 | 100 | .014 | 7.00 |
| PCS125-2R2M-RC | 2.2 | 20 | 100 | .014 | 7.00 |
| PCS125-3R1M-RC | 3.1 | 20 | 100 | .017 | 6.00 |
| PCS125-3R3M-RC | 3.3 | 20 | 100 | .017 | 6.75 |
| PCS125-4R4M-RC | 4.4 | 20 | 100 | .020 | 5.00 |
| PCS125-4R7M-RC | 4.7 | 20 | 100 | .018 | 6.20 |
| PCS125-5R8M-RC | 5.8 | 20 | 100 | .021 | 4.40 |
| PCS125-6R8M-RC | 6.8 | 20 | 100 | .023 | 5.90 |
| PCS125-7R5M-RC | 7.5 | 20 | 100 | .024 | 4.20 |
| PCS125-8R2M-RC | 8.2 | 20 | 100 | .024 | 4.10 |
| PCS125-100M-RC | 10 | 20 | 1 | .025 | 4.00 |
| PCS125-120M-RC | 12 | 20 | 1 | .027 | 3.50 |
| PCS125-150M-RC | 15 | 20 | 1 | .030 | 3.30 |
| PCS125-180M-RC | 18 | 20 | 1 | .034 | 3.00 |
| PCS125-220M-RC | 22 | 20 | 1 | .036 | 2.80 |
| PCS125-270M-RC | 27 | 20 | 1 | .051 | 2.30 |
| PCS125-330M-RC | 33 | 20 | 1 | .057 | 2.10 |
| PCS125-390M-RC | 39 | 20 | 1 | .068 | 2.00 |
| PCS125-470M-RC | 47 | 20 | 1 | .075 | 1.80 |
| PCS125-560M-RC | 56 | 20 | 1 | 0.11 | 1.70 |
| PCS125-680M-RC | 68 | 20 | 1 | 0.12 | 1.50 |
| PCS125-820M-RC | 82 | 20 | 1 | 0.14 | 1.40 |
| PCS125-101M-RC | 100 | 20 | 1 | 0.16 | 1.30 |
| PCS125-121M-RC | 120 | 20 | 1 | 0.17 | 1.10 |
| PCS125-151M-RC | 150 | 20 | 1 | 0.23 | 1.00 |
| PCS125-181M-RC | 180 | 20 | 1 | 0.29 | 0.90 |
| PCS125-221M-RC | 220 | 20 | 1 | 0.40 | 0.80 |
| PCS125-271M-RC | 270 | 20 | 1 | 0.46 | 0.75 |
| PCS125-331M-RC | 330 | 20 | 1 | 0.51 | 0.68 |
| PCS125-391M-RC | 390 | 20 | 1 | 0.69 | 0.65 |
| PCS125-471M-RC | 470 | 20 | 1 | 0.77 | 0.58 |
| PCS125-561M-RC | 560 | 20 | 1 | 0.86 | 0.54 |
| PCS125-681M-RC | 680 | 20 | 1 | 1.20 | 0.48 |
| PCS125-821M-RC | 820 | 20 | 1 | 1.34 | 0.43 |
| PCS125-102M-RC | 1000 | 20 | 1 | 1.53 | 0.40 |

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: 1.3μH to 1000μH
Test Frequency: 100KHz, 0.25V and 1KHz, 0.25V
Operation Temp: -40°C to +125°C
IDC: The DC current at which the inductance becomes 25% lower than its initial value or when Δt=40°C, whichever is lower. (Ta=25°C)

Resistance to Soldering Heat

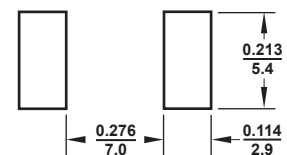
Pre-Heat: 150°C, 1 Min.
Solder Composition: SnCuNi
Solder Temp: 260°C ±5°C
Immersion Time: 10 Sec.

Test Equipment

(L): HP4284A | HP4285A LCR Meter
(DCR): Milli-ohm meter

Physical

Packaging: 400 pieces per 13 inch reel
Marking: EIA Inductance Code.



Recommended Pad Layout