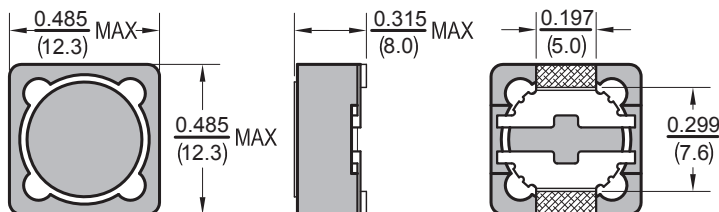




Power Chip Shielded Inductors PCSDR127



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



| Allied Part Number | Inductance (μh) | Tolerance (%) | Test Freq. KHz, 0.25V | DCR (Ω) | I _{rms} (A) | I _{sat} (A) |
|--------------------|-----------------|---------------|-----------------------|---------|----------------------|----------------------|
| PCSDR127-R47T-RC | 0.47 | 30 | 100 | 0.0023 | 17.896 | 56.000 |
| PCSDR127-1R0T-RC | 1.0 | 30 | 100 | 0.0031 | 15.469 | 40.000 |
| PCSDR127-1R5T-RC | 1.5 | 30 | 100 | 0.0041 | 13.533 | 31.110 |
| PCSDR127-2R2T-RC | 2.2 | 30 | 100 | 0.0048 | 12.464 | 25.450 |
| PCSDR127-2R7T-RC | 2.7 | 30 | 100 | 0.0068 | 10.495 | 21.540 |
| PCSDR127-3R9T-RC | 3.9 | 30 | 100 | 0.0108 | 8.330 | 18.670 |
| PCSDR127-4R7T-RC | 4.7 | 30 | 100 | 0.0110 | 8.253 | 16.470 |
| PCSDR127-5R6T-RC | 5.6 | 30 | 100 | 0.0134 | 7.535 | 14.740 |
| PCSDR127-6R8T-RC | 6.8 | 30 | 100 | 0.0139 | 7.337 | 13.330 |
| PCSDR127-8R2M-RC | 8.2 | 20 | 100 | 0.0188 | 6.307 | 12.170 |
| PCSDR127-100M-RC | 10 | 20 | 100 | 0.0206 | 6.026 | 11.200 |
| PCSDR127-120M-RC | 12 | 20 | 100 | 0.0241 | 5.574 | 10.370 |
| PCSDR127-150M-RC | 15 | 20 | 100 | 0.0296 | 5.028 | 9.660 |
| PCSDR127-180M-RC | 18 | 20 | 100 | 0.0437 | 4.142 | 8.480 |
| PCSDR127-220M-RC | 22 | 20 | 100 | 0.0469 | 3.997 | 7.570 |
| PCSDR127-270M-RC | 27 | 20 | 100 | 0.0580 | 3.596 | 6.830 |
| PCSDR127-330M-RC | 33 | 20 | 100 | 0.0720 | 3.226 | 6.220 |
| PCSDR127-390M-RC | 39 | 20 | 100 | 0.0764 | 3.131 | 5.710 |
| PCSDR127-470M-RC | 47 | 20 | 100 | 0.0863 | 2.947 | 5.280 |
| PCSDR127-560M-RC | 56 | 20 | 100 | 0.0945 | 2.815 | 4.910 |
| PCSDR127-680M-RC | 68 | 20 | 100 | 0.1260 | 2.439 | 4.440 |
| PCSDR127-820M-RC | 82 | 20 | 100 | 0.1716 | 2.090 | 3.940 |
| PCSDR127-101M-RC | 100 | 20 | 100 | 0.1956 | 1.957 | 3.640 |
| PCSDR127-121M-RC | 120 | 20 | 100 | 0.2334 | 1.832 | 3.290 |
| PCSDR127-151M-RC | 150 | 20 | 100 | 0.2964 | 1.590 | 2.950 |
| PCSDR127-181M-RC | 180 | 20 | 100 | 0.3288 | 1.510 | 2.720 |
| PCSDR127-221M-RC | 220 | 20 | 100 | 0.4512 | 1.289 | 2.430 |
| PCSDR127-271M-RC | 270 | 20 | 100 | 0.5080 | 1.214 | 2.200 |
| PCSDR127-331M-RC | 330 | 20 | 100 | 0.6888 | 1.043 | 1.990 |
| PCSDR127-391M-RC | 390 | 20 | 100 | 0.8890 | 0.918 | 1.830 |
| PCSDR127-471M-RC | 470 | 20 | 100 | 1.0332 | 0.852 | 1.680 |
| PCSDR127-561M-RC | 560 | 20 | 100 | 1.1320 | 0.814 | 1.530 |
| PCSDR127-681M-RC | 680 | 20 | 100 | 1.2960 | 0.760 | 1.390 |
| PCSDR127-821M-RC | 820 | 20 | 100 | 1.7640 | 0.652 | 1.270 |
| PCSDR127-102M-RC | 1000 | 20 | 100 | 1.9920 | 0.613 | 1.140 |
| PCSDR127-122M-RC | 1200 | 20 | 100 | 2.6100 | 0.536 | 1.050 |

All specifications subject to change without notice.

Features

- Magnetically Shielded
- High saturation current
- Expanded operating temp range
- Low DC Resistance
- High Energy Storage
- Low Energy Loss
- Suitable for pick and place

Electrical

Inductance Range: .47μh to 1200μh

Tolerance: .47μh~6.8μh 30%,
8.2μh~1200μh 20%

Available in tighter tolerances

Test Frequency: 1KHz, 0.25V

Operating Temp: -55°C ~ +125°C

I_{rms}: Current at which the ΔT=40°C

I_{sat}: Current at which the inductance drops 35% from initial value

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 4284A LCR meter or equivalent

(RDC): HP 4338B Milliohm meter or equivalent

(IDC): 3260B WK & DC Bias 3265B WK

Physical

Packaging: 500 pieces per 13 inch reel.

Marking: EIA Inductance Code.