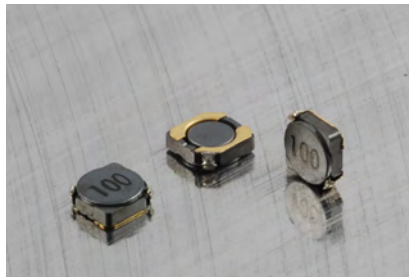
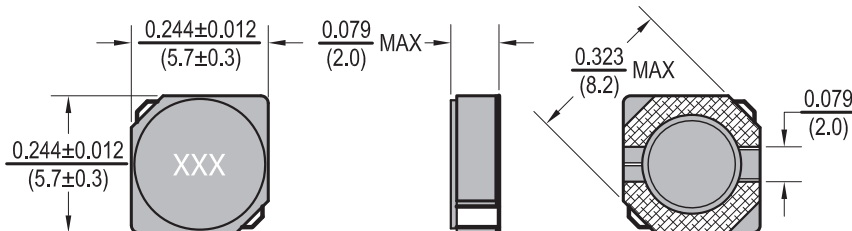




Power Chip Shielded Inductors PCS5D18



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



| Allied Part Number | Inductance (μh) | Tolerance (%) | Test Freq. KHz, 1V | RDC (Ω) Max. | Rated Current (A) |
|--------------------|-----------------|---------------|--------------------|--------------|-------------------|
| PCS5D18-1R0T-RC | 1.0 | 30 | 10 | .038 | 2.80 |
| PCS5D18-1R5T-RC | 1.5 | 30 | 10 | .038 | 2.50 |
| PCS5D18-3R3T-RC | 3.3 | 30 | 10 | .056 | 1.90 |
| PCS5D18-4R1T-RC | 4.1 | 30 | 10 | .057 | 1.95 |
| PCS5D18-4R7T-RC | 4.7 | 30 | 10 | .076 | 1.60 |
| PCS5D18-5R4T-RC | 5.4 | 30 | 10 | .076 | 1.60 |
| PCS5D18-6R2T-RC | 6.2 | 30 | 10 | .096 | 1.40 |
| PCS5D18-6R8T-RC | 6.8 | 30 | 10 | .100 | 1.35 |
| PCS5D18-8R9T-RC | 8.9 | 30 | 10 | .116 | 1.25 |
| PCS5D18-100T-RC | 10 | 30 | 10 | .124 | 1.20 |
| PCS5D18-120T-RC | 12 | 30 | 10 | .153 | 1.10 |
| PCS5D18-150T-RC | 15 | 30 | 10 | .196 | 0.97 |
| PCS5D18-180T-RC | 18 | 30 | 10 | .210 | 0.85 |
| PCS5D18-220T-RC | 22 | 30 | 10 | .290 | 0.80 |
| PCS5D18-270T-RC | 27 | 30 | 10 | .330 | 0.75 |
| PCS5D18-330T-RC | 33 | 30 | 10 | .386 | 0.65 |
| PCS5D18-390T-RC | 39 | 30 | 10 | .520 | 0.57 |
| PCS5D18-470T-RC | 47 | 30 | 10 | .595 | 0.54 |
| PCS5D18-560T-RC | 56 | 30 | 10 | .665 | 0.50 |
| PCS5D18-680T-RC | 68 | 30 | 10 | .840 | 0.43 |
| PCS5D18-820T-RC | 82 | 30 | 10 | .978 | 0.41 |
| PCS5D18-101T-RC | 100 | 30 | 10 | 1.20 | 0.36 |

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: 1μh to 100μh

Tolerance: 30% over entire range

Also, available in tighter tolerances

Operating Temp: -30°C ~ +100°C

Rated Current: Current at which inductance drop by 35% of initial value or ΔT=40°C lower, whichever is lower

Resistance to Soldering Heat

Pre-Heat 150°C, 1 Min.

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

Solder Temp: 260°C +/- 5°C for

10 sec. +/- 1 sec.

Test Equipment

(L): HP4284A LF Impedance Analyzer

(RDC): Chen Hwa 502BC

Rated Current: HP4284+HP42841A or
Chen Hwa 1061 + Chen Hwa 301A

Physical

Packaging: 1500 pieces per 13 inch reel.

Marking: EIA Inductance Code