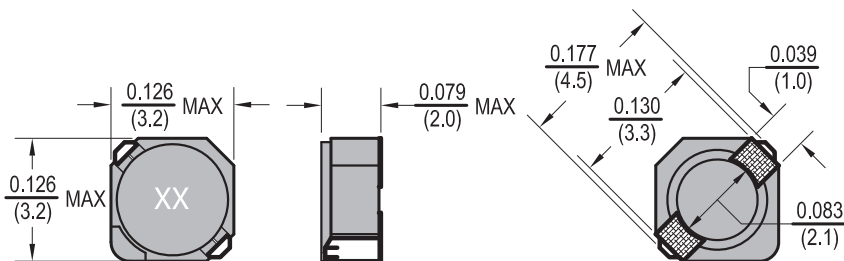




Power Chip Shielded Inductors PCSHC2D18



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



| Allied Part Number | Inductance (μh) | Tolerance (%) | Test Freq. KHz, 1v | DCR (Ω) Max | Rated Current (A) | I _{rms} (A) Typ | Marking |
|--------------------|------------------------------|---------------|--------------------|----------------------|-------------------|--------------------------|---------|
| PCSHC2D18-1R7T-RC | 1.7 | 30 | 100 | 0.044 | 1.85 | 2.20 | BH |
| PCSHC2D18-2R2T-RC | 2.2 | 30 | 100 | 0.060 | 1.60 | 1.90 | CC |
| PCSHC2D18-3R3T-RC | 3.3 | 30 | 100 | 0.086 | 1.45 | 1.55 | DD |
| PCSHC2D18-4R7T-RC | 4.7 | 30 | 100 | 0.140 | 1.20 | 1.20 | EH |
| PCSHC2D18-6R3T-RC | 6.3 | 30 | 100 | 0.160 | 1.05 | 1.15 | GD |
| PCSHC2D18-6R8T-RC | 6.8 | 30 | 100 | 0.195 | 1.00 | | GI |
| PCSHC2D18-100T-RC | 10 | 30 | 100 | 0.245 | 0.85 | 0.90 | KA |
| PCSHC2D18-150T-RC | 15 | 30 | 100 | 0.345 | 0.70 | 0.64 | MA |
| PCSHC2D18-220T-RC | 22 | 30 | 100 | 0.650 | 0.50 | | LA |

All specifications subject to change without notice.

Features

- Shielded SMD Power Inductor
- Low DC resistance
- Ideal for DC-DC converter applications

Electrical

Inductance Range: 1.7 μh to 22 μh
Tolerance: 30% over entire range
 Also, available in tighter tolerances
Operating Temp: -30°C ~ +100°C
Rated Current: Current at which inductance drops by 35% of initial value
I_{rms}: Current at which the $\Delta T=40^\circ\text{C}$

Resistance to Soldering Heat

Pre-Heat 150°C, 1 minute.
Solder Composition: Sn/Ag3.0/Cu0.5
Solder Temp: 260°C \pm 5°C for 10 sec. \pm 1 sec.

Test Equipment

(L): HP 4192A LF Impedance Analyzer
(RDC): Chen Hwa 502
(IDC): HP4284A + HP42841A

Physical

Packaging: 1000 pieces per 7 inch reel.
Marking: As noted