Shielded High Current Power Choke

PCXLR402

Allied Part Number: 949-356-1780
RoHS

Features
- High Operating Temperature Range
- High Efficiency
- High Current with Soft Saturation
- Low DCR
- Suitable for pick and place
- Very low acoustic noise and very low leakage flux noise.

Electrical
- Inductance Range: 0.47µH to 3.3µH
- Tolerance: ±20% Across entire series
- Test Frequency: 100KHz, 0.1V
- Operating Temp: -40°C to +125°C
- MSL: Level 1
- Irms: Current at which ∆ T=20°C & ∆ T=40°C temp rise without core loss.
- Isat: Current at which Inductance drop is approximately 10%, 20%, and 30%. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.

Reflow Soldering

Pre-Heat: 150°C, 1 minute.
Solder Composition: Sn96.5% Ag3% Cu0.5%
Solder Temp: 245°C ± 5°C
Immersion Time: 4 sec. ± 1 sec.
Depth: Completely cover the termination

Test Equipment
(L): HP4284A LCR meter or equivalent
DCR: CH18502, Agilent 33420A Micro-Ohmmeter

Physical
- Packaging: 3000 pieces per 13 inch reel.
- Marking: EIA Inductance Code/ Date Code

Allied Components International
949-356-1780
RoHS

Dimensions: Inches (mm)

<table>
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<tr>
<th>Allied Part Number</th>
<th>Inductance (µH) ±20% @ 0A</th>
<th>DCR (mΩ) Typ.@25°C</th>
<th>DCR (mΩ) Max@25°C</th>
<th>Irms (A) Typ. 20°C Rise</th>
<th>Irms (A) Typ. 40°C Rise</th>
<th>Isat (A) Max</th>
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All specifications subject to change without notice.
Typical Performance Curves

PCXLR402-R47

PCXLR402-R68

PCXLR402-R82

PCXLR402-1R0

PCXLR402-1R2

PCXLR402-1R5

PCXLR402-2R0

PCXLR402-2R2

PCXLR402-3R3
Packaging Information

Reel Dimension

Tape Dimension

Tearing Off Force

The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI/EIA-481-D-2008 of 4.11 standard).

Application Notice

- Storage Conditions
  2. Temperature and humidity conditions: Less than 40°C and 60% RH.
  3. Recommended products should be used within 12 months from the time of delivery.
  4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
  1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
  2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
  3. Bulk handling should ensure that abrasion and mechanical shock are minimized.