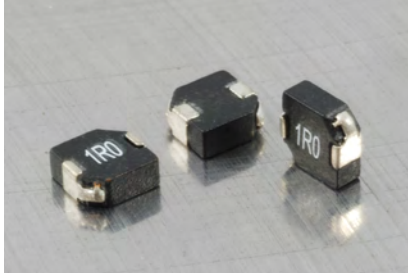


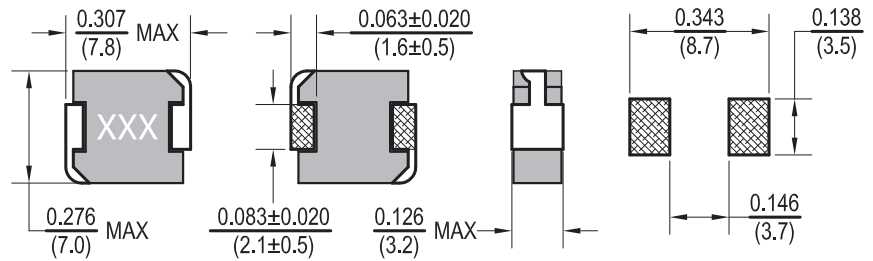


Power Choke High Current

PCHC63H



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



| Allied Part Number | Inductance (μH) | Tolerance (%) | Test Freq. KHz, 1v | DCR (Ω) Max | Isat (A) | Irms (A) Max. |
|--------------------|-----------------|---------------|--------------------|-------------|----------|---------------|
| PCHC63H-R33M-RC | 0.33 | 20 | 100 | 3.9 | 30 | 20 |
| PCHC63H-R47M-RC | 0.47 | 20 | 100 | 4.2 | 26 | 17.5 |
| PCHC63H-R68M-RC | 0.68 | 20 | 100 | 5.5 | 23 | 15.5 |
| PCHC63H-1R0M-RC | 1.00 | 20 | 100 | 10 | 16 | 11 |
| PCHC63H-1R5M-RC | 1.50 | 20 | 100 | 15 | 14 | 9 |
| PCHC63H-2R2M-RC | 2.20 | 20 | 100 | 20 | 12 | 8 |
| PCHC63H-3R3M-RC | 3.30 | 20 | 100 | 30 | 10 | 6 |
| PCHC63H-4R7M-RC | 4.70 | 20 | 100 | 40 | 6.5 | 5.5 |
| PCHC63H-6R8M-RC | 6.80 | 20 | 100 | 60 | 6 | 4.5 |
| PCHC63H-100M-RC | 10 | 20 | 100 | 105 | 4.5 | 3 |

All specifications subject to change without notice.

Features

- Magnetically shielded construction
- High saturation current up to 30A
- Expanding operating temp range
- Low DCR resistance
- Suitable for pick and place

Electrical

Inductance Range: .33μH to 10μH

Available in tighter tolerances

Tolerance: 20% over entire range,

Test Frequency: 100KHz, 1.0Vdc

Operating Temp: -55°C ~ +125°C

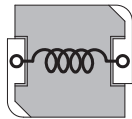
Storage Temp: -55°C ~ +125°C

Temp rise: ΔT=40°C Typical at rated I_{rms} with out core loss.

Part temperature should not exceed 125°C including temperature rise.

Inductance drop: 20% typical at rated Isat

Schematic



Resistance to Soldering Heat

Pre-Heat 150°C, 1 minute.

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

(DCR): CH16502, Agilent 33420A Micro-Ohm meter

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

Physical

Packaging: 1000 pieces per 13 inch reel.

Marking: EIA Inductance Code