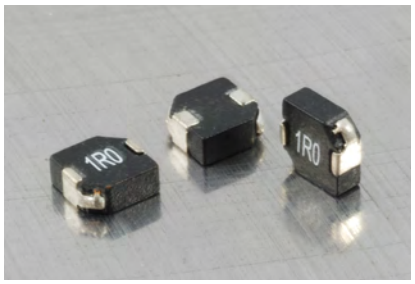
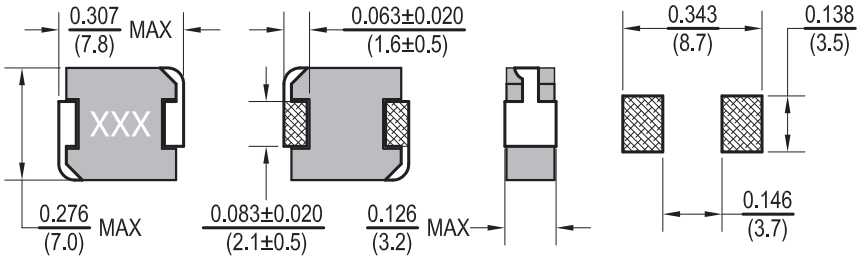
RoHS

# Power Choke High Current PCHC63H



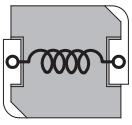

**Dimensions:** Inches (mm)




| Allied Part Number | Inductance (µh) | Tolerance (%) | Test Freq. KHz,1v | DCR (mΩ) 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-8R2M-RC | 8.20 | 20 | 100 | 68 | 5.5 | 4 |
| PCHC63H-100M-RC | 10 | 20 | 100 | 105 | 4.5 | 3 |

All specifications subject to change without notice.

## Schematic



## 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:** -55ºC ~ +125ºC
**Storage Temp:** -55ºC ~ +125ºC
**Temp rise:** Δ T=40ºC Typical at rated Irms with out core loss.
Part temperature should not exceed 125ºC including temperature rise.
**Inductance drop:** 20% typical at rated Isat

## Resistance to Soldering Heat

Pre-Heat 150ºC, 1 minute.
**Solder Composition:** Sn/Ag3.0/Cu0.5
**Solder Temp:** 260ºC ± 5ºC
**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