Power Choke High Current

PCHC123H

Allied Part Number | Inductance (µH) | Tolerance (%) | Test Freq. KHz, 1v | DCR (mΩ) Max | Isat (A) | Irms (A) Max.
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PCHC123H-R47M-RC | 0.47 | 20 | 100 | 2 | 44 | 32
PCHC123H-R68M-RC | 0.68 | 20 | 100 | 2.5 | 40 | 28
PCHC123H-1R0M-RC | 1.00 | 20 | 100 | 3.5 | 36 | 24
PCHC123H-1R5M-RC | 1.50 | 20 | 100 | 5.5 | 28 | 19
PCHC123H-2R2M-RC | 2.20 | 20 | 100 | 8 | 20 | 16
PCHC123H-3R3M-RC | 3.30 | 20 | 100 | 12 | 18 | 12
PCHC123H-4R7M-RC | 4.70 | 20 | 100 | 15 | 16 | 10
PCHC123H-6R8M-RC | 6.80 | 20 | 100 | 22 | 13 | 9
PCHC123H-100M-RC | 10 | 20 | 100 | 34 | 9.5 | 7

Features

- Magnetically shielded construction
- High saturation current up to 44A
- Expanded operating temp range
- Low DCR
- Suitable for pick and place

Electrical

Inductance Range: 0.47µH to 10µH
Additional values available
Tolerance: 20% over entire range, Available in tighter tolerances
Test Frequency: 100KHz, 1V
Operating Temp: -40°C ~ +125°C
Irms: Current at which ΔT=40°C temp rise with out core loss.
Isat: Current at which Inductance drop is approximately 30%.

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): HP4284A LCR meter or equivalent
DCR: CH16502, Agilent 33420A Micro-Ohm meter
IDC: 3260B WK & DC Bias 3265B WK

Physical

Packaging: 600 pieces per 13 inch reel.
Marking: EIA Inductance Code