SMD High Current Shielded Choke   PCHC412R8

Features

• Magnetically shielded construction
• Ultra High saturation current up to 11.5A
• Low RD Resistance
• Expanded operating temp range
• Suitable for pick and place

Electrical

Inductance Range: .22µH to 4.7uH additional values available.
Tolerance: 20% over entire range
Test Frequency: 100KHz, 0.5Vdc
Operating Temp: -55ºC ~ +125ºC
Storage Temp: -55ºC ~ +125ºC
Temp. Rise: Δ=40ºC Typical at heat rated current.
Under no condition should the part exceed 125ºC.
Inductance drop: 30% 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): WK 3260B
DCR: Chen HWA502
IDC: 3260B WK & DC Bias 3265B WK

Physical

Packaging: 2000 pieces per 13 inch reel.
Marking: EIA Inductance Code

Allied Part Number | Inductance (µH) | Tolerance (±%) | Test Frequency (KHz, 0.5V) | RDC (mΩ) Max | Isat (A) Typ | Irms (A) Typ
---|---|---|---|---|---|---
PCHC412R8-R22M-RC | 0.22 | 20 | 100 | 12 | 11.5 | 8.5
PCHC412R8-R47M-RC | 0.47 | 20 | 100 | 25 | 7.0 | 5.0
PCHC412R8-R68M-RC | 0.68 | 20 | 100 | 37 | 6.0 | 4.0
PCHC412R8-1R0M-RC | 1.0 | 20 | 100 | 46 | 5.2 | 4.0
PCHC412R8-2R2M-RC | 2.2 | 20 | 100 | 114 | 3.5 | 2.2
PCHC412R8-4R7M-RC | 4.7 | 20 | 100 | 195 | 2.8 | 1.8

All specifications subject to change without notice.