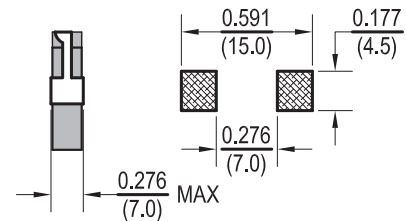
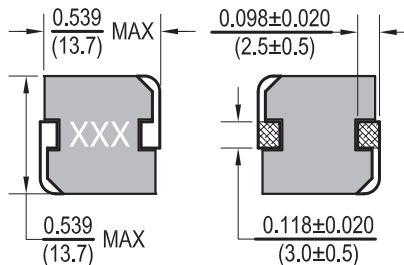


Dimensions: Inches  
(mm)



| Allied Part Number | Inductance (μh) | Tolerance (%) | Test Freq. KHz, 1v | DCR (Ω) Max | Isat (A) | Irms (A) Max. |
|--------------------|-----------------|---------------|--------------------|-------------|----------|---------------|
| PCHC127H-R47M-RC   | 0.47            | 20            | 100                | 1.2         | 65       | 41            |
| PCHC127H-R68M-RC   | 0.68            | 20            | 100                | 1.6         | 60       | 35            |
| PCHC127H-1R0M-RC   | 1.00            | 20            | 100                | 2.1         | 50       | 32            |
| PCHC127H-1R5M-RC   | 1.50            | 20            | 100                | 2.6         | 48       | 27            |
| PCHC127H-2R2M-RC   | 2.20            | 20            | 100                | 4.2         | 40       | 22            |
| PCHC127H-3R3M-RC   | 3.30            | 20            | 100                | 6.8         | 35       | 18            |
| PCHC127H-4R7M-RC   | 4.70            | 20            | 100                | 11.2        | 30       | 15            |
| PCHC127H-6R8M-RC   | 6.80            | 20            | 100                | 14          | 21       | 12            |
| PCHC127H-100M-RC   | 10              | 20            | 100                | 16.8        | 16       | 10            |

All specifications subject to change without notice.

### Features

- Magnetically shielded construction
- High saturation current up to 65A
- Expanded operating temp range
- Low DC Resistance
- Suitable for pick and place

### Electrical

**Inductance Range:** .47μH to 10μH

Additional values available

**Tolerance:** 20% over entire range, Available in tighter tolerances

**Test Frequency:** 100KHz, 1.0Vdc

**Operating Temp:** -55°C ~ +125°C

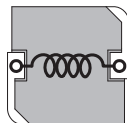
**Storage Temp:** -55°C ~ +125°C

**Temp Rise:** ΔT=40°C Typical at rated I<sub>rms</sub> without 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):** HP4284A LCR meter or equivalent

**(DCR):** CH16502, Agilent 33420A Mico-Ohm Meter

**IDC:** 3260B WK & DC Bias 3265BWK

### Physical

**Packaging:** 500 pieces per 13 inch reel.

**Marking:** EIA Inductance Code