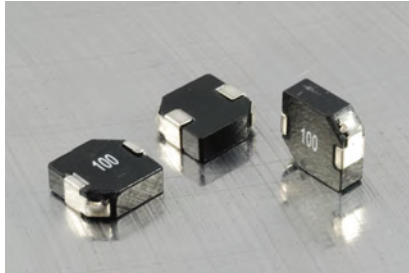


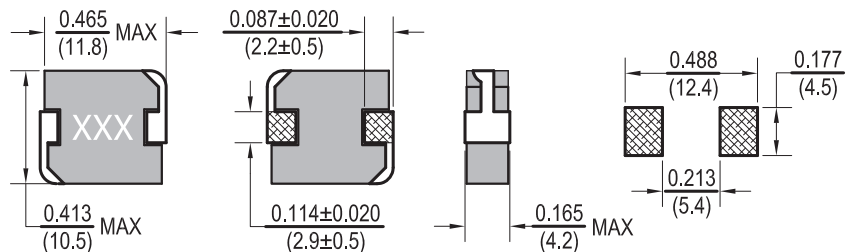


## Power Choke High Current

## PCHC104H



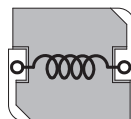
Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



Allied Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Test Freq. KHz, 1v	DCR ( $\text{m}\Omega$ ) Max	Isat (A)	Irms (A) Max.
PCHC104H-R36M-RC	0.36	20	100	1.4	40	28
PCHC104H-R47M-RC	0.47	20	100	1.6	38	26
PCHC104H-R56M-RC	0.56	20	100	1.9	36	25
PCHC104H-R68M-RC	0.68	20	100	2.4	32	23
PCHC104H-1R0M-RC	1.00	20	100	3.5	28	20
PCHC104H-1R5M-RC	1.50	20	100	7.5	20	12
PCHC104H-2R2M-RC	2.20	20	100	8.56	16.5	11.5
PCHC104H-3R3M-RC	3.30	20	100	10	14	10
PCHC104H-4R7M-RC	4.70	20	100	13.5	13	8
PCHC104H-6R8M-RC	6.80	20	100	24	11	6.5
PCHC104H-100M-RC	10	20	100	35	9	5

All specifications subject to change without notice.

### Schematic



### Features

- Magnetically shielded construction
- High saturation current up to 40A
- Expanding operating temp range
- Low DCR resistance
- Suitable for pick and place

### Electrical

**Inductance Range:** .36 $\mu\text{H}$  to 10 $\mu\text{H}$

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:**  $\Delta T=40^\circ\text{C}$  Typical at rated I<sub>rms</sub> with out core loss.

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

**Inductance drop:** 20% typical at rated Isat

### Resistance to Soldering Heat

Pre-Heat 150°C, 1 minute.

**Solder Composition:** Sn/Ag3.0/Cu0.5

**Solder Temp:** 260°C  $\pm$  5°C

**Immersion Time:** 10 sec.  $\pm$  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:** 900 pieces per 13 inch reel.

**Marking:** EIA Inductance Code