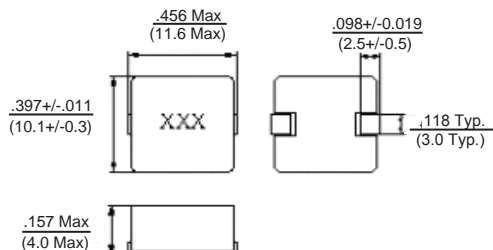




# Power Choke High Current PCHC104R7

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



Allied Part Number	Inductance ( $\mu\text{h}$ )	Tolerance (%)	DCR ( $\text{m}\Omega$ ) Max.	I <sub>rms</sub> (A) Typ.	I <sub>sat</sub> (A) Typ.
PCHC104R7-R22M-RC	0.22	20	0.6	35	45
PCHC104R7-R36M-RC	0.36	20	1.2	34	42
PCHC104R7-R45M-RC	0.45	20	1.2	33	38
PCHC104R7-R47M-RC	0.47	20	1.2	33	38
PCHC104R7-R56M-RC	0.56	20	1.55	27	32
PCHC104R7-R68M-RC	0.68	20	1.55	27	30
PCHC104R7-1R0M-RC	1.0	20	3.1	20	26
PCHC104R7-1R5M-RC	1.5	20	4.2	16	22
PCHC104R7-1R8M-RC	1.8	20	5	15.3	16
PCHC104R7-3R3M-RC	3.3	20	13.2	11	12
PCHC104R7-6R8M-RC	6.8	20	25	6	10
PCHC104R7-8R2M-RC	8.2	20	30	6	9
PCHC104R7-100M-RC	10	20	30	6.5	7
PCHC104R7-150M-RC	15	20	53	5	6
PCHC104R7-220M-RC	22	20	64	4.5	4.5

All specifications subject to change without notice.

## Features

- Magnetically shielded construction
- High saturation current up to 45A
- Low DC Resistance
- Expanded operating temp range
- Suitable for pick and place

## Electrical

**Inductance Range:** .22 $\mu\text{H}$  to 22 $\mu\text{H}$ , additional values available.

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

**Test Frequency:** 100KHz, 0.5V

**Operating Temp:** -55°C ~ +125°C

**StorageTemp:** -55°C ~ +125°C

**I<sub>rms</sub>:** Current at which the temp will rise approx 40°C.

**I<sub>sat</sub>:** Current at which the Inductance will drop approximately 30%.

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

## 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: CH502, Agilent 33420A Micro-Ohm meter

IDC: 3260B WK & DC Bias 3265B WK

## Physical

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

**Marking:** EIA Inductance Code