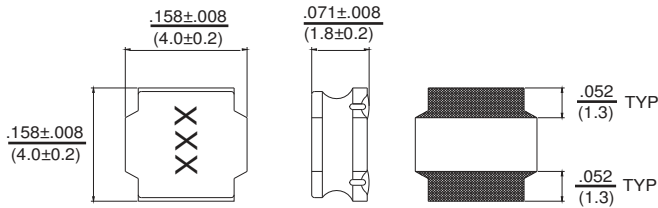




# SMD Shielded Power Chip Inductor

# PCFV48

Dimensions: Inches  
(mm)



| Allied Part Number | Inductance (µH) | Tolerance (%) | Test Freq. MHz, 100mV | RDC (mΩ) ±30% | Isat (A) (Max) | Irms (A) (Max) | Marking |
|--------------------|-----------------|---------------|-----------------------|---------------|----------------|----------------|---------|
| PCFV48-1R0M-RC     | 1.0             | 20            | 1                     | 26.5          | 3.78           | 3.42           | 1R0     |
| PCFV48-1R5M-RC     | 1.5             | 20            | 1                     | 37.0          | 3.15           | 2.88           | 1R5     |
| PCFV48-2R2M-RC     | 2.2             | 20            | 1                     | 47.0          | 2.70           | 2.43           | 2R2     |
| PCFV48-3R3M-RC     | 3.3             | 20            | 1                     | 62.5          | 2.07           | 1.89           | 3R3     |

All specifications subject to change without notice.

### Features

- Magnetically Shielded Construction
- High Current
- Low DC Resistance
- Ultra Low Profile, 2.0mm

### Electrical

**Inductance Range:** 1.0µH ~ 3.3µH (other values being added)

**Tolerance:** Available in 20%

**Operating Temp:** -40°C ~ +125°C

**Isat:** Current at which the Inductance will drop by no more than 30% of its initial value.

**Irms:** Based on a temp rise of ΔT = 40°C typical above Ambient Temp.

### Resistance to Soldering Heat

Pre-Heat 150°C, 1 Min.

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

**Solder Temp:** 260°C +/- 5°C for 10 sec

### Test Equipment

(L): HP4287A + HP16197A

(RDC): Chroma MilliOhm Meter 16502

Current: HP4284A + HP42841A

### Physical

**Packaging:** 800 per Tape and reel

**Marking:** EIA Inductance code

