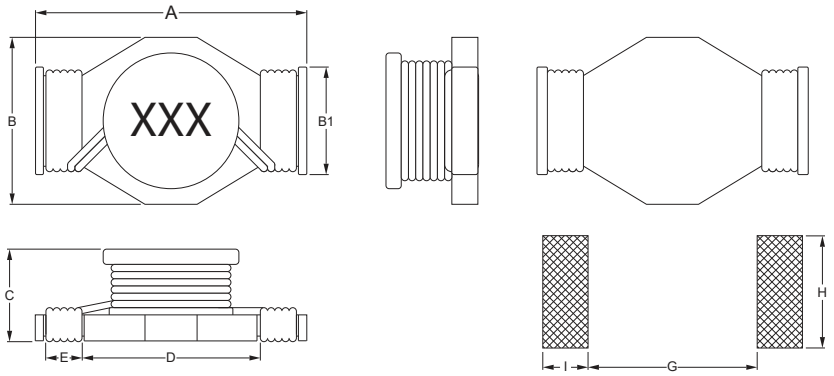
RoHS

# Power Chip Inductors

# PCI65




Recommended PCB Layout


| A | B | B1 | C | D | E | G | H | I |
|---|---|---|---|---|---|---|---|---|
| .886 (22.5) Max | .602 (15.3) Max | .303+.020/-0 (7.7+0.5/-0) | .472 (12.0) Max | .575 (14.6) | .098 (2.5) Max | .531 (13.5) | .394 (10.0) | .169 (4.3) |

| Allied Part Number | Inductance (µH) | Tolerance (%) | Test Frequency KHz, 0.1V | DCR (mΩ) Max | Isat (A) Typ | Irms (A) |
|---|---|---|---|---|---|---|
| PCI65-150M-RC | 15 | 20 | 100 | 20 | 13.8 | 6.5 |
| PCI65-180M-RC | 18 | 20 | 100 | 22 | 13.2 | 6.0 |
| PCI65-220M-RC | 22 | 20 | 100 | 24 | 11.8 | 5.7 |
| PCI65-330M-RC | 33 | 20 | 100 | 37 | 9.6 | 4.5 |
| PCI65-470M-RC | 47 | 20 | 100 | 52 | 7.8 | 3.7 |
| PCI65-680M-RC | 68 | 20 | 100 | 67 | 6.7 | 3.4 |
| PCI65-101M-RC | 100 | 20 | 100 | 115 | 5.6 | 2.8 |
| PCI65-331M-RC | 330 | 10 | 100 | 325 | 3.0 | 1.5 |
| PCI65-681M-RC | 680 | 10 | 100 | 780 | 2.0 | 1.1 |

All specifications subject to change without notice.

## Features

- High current capacity
- High energy storage and low DCR
- Wrap around terminals for excellent solder quality and inspection
- Flat top for pick and place assembly
- Non-standard values available

## Electrical

**Inductance Range:** 15µH to 680µH
**Tolerance:** ±20% 15µH to 100µH
±10% 330µH to 680µH
**Test Frequency:** Inductance measured at 100KHz, 0.1 Vrms
**Operating Temp. Range:** -40°C to +125°C
**Isat:** DC current at which the inductance drops by 10% from its value without current.
**Irms:** Current that causes ΔT=40ºC rise from 25°C ambient temperature.

## Physical

**Marking:** EIA Code
**Packaging:** 200 pieces per 13 inch reel

## Reflow Soldering