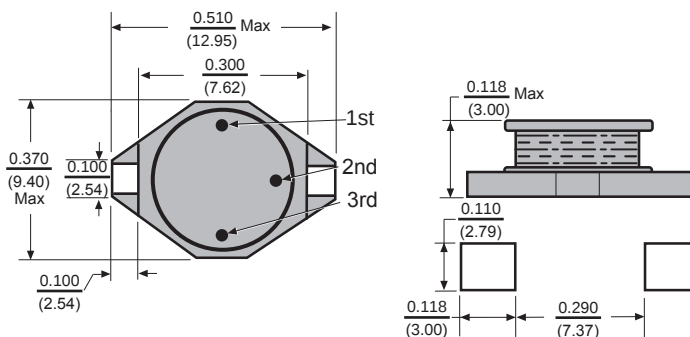




# Power Chip Inductors PCI30



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



\* Notice of marking change see "Marking" below.

| Allied Part Number | Inductance ( $\mu\text{h}$ ) | Tolerance (%) | SRF (MHz) TYP | DCR Max. ( $\Omega$ ) | Isat (A) | Irms (A) |
|--------------------|------------------------------|---------------|---------------|-----------------------|----------|----------|
| PCI30-100M-RC      | 10                           | 20            | 35            | 0.09                  | 2.4      | 2.0      |
| PCI30-150M-RC      | 15                           | 20            | 33            | 0.12                  | 2.0      | 1.5      |
| PCI30-220M-RC      | 22                           | 20            | 25            | 0.19                  | 1.6      | 1.3      |
| PCI30-330M-RC      | 33                           | 20            | 19            | 0.25                  | 1.4      | 1.1      |
| PCI30-470M-RC      | 47                           | 20            | 14            | 0.32                  | 1.0      | 0.8      |
| PCI30-680M-RC      | 68                           | 20            | 12            | 0.55                  | 0.9      | 0.7      |
| PCI30-101M-RC      | 100                          | 20            | 10            | 0.70                  | 0.7      | 0.6      |
| PCI30-151M-RC      | 150                          | 20            | 8             | 1.00                  | 0.6      | 0.5      |
| PCI30-221M-RC      | 220                          | 20            | 6             | 1.60                  | 0.5      | 0.4      |
| PCI30-331M-RC      | 330                          | 20            | 5             | 2.20                  | 0.4      | 0.3      |
| PCI30-471M-RC      | 470                          | 20            | 4             | 3.30                  | 0.3      | 0.2      |
| PCI30-681M-RC      | 680                          | 20            | 3             | 4.40                  | 0.2      | 0.1      |
| PCI30-102M-RC      | 1000                         | 20            | 2.5           | 7.00                  | 0.1      | 0.05     |

## Features

- Low Profile
- Designed with high heat resistant materials for reflow operation
- Wrap around terminals for excellent solder quality and inspection
- Flat top for pick and place assembly
- Non-standard values available

## Electrical

**Inductance Range:** 10 $\mu\text{h}$  to 1000 $\mu\text{h}$ .

**Tolerance:**  $\pm 20\%$  over the entire inductance range.

**Test Frequency:** Inductance measured at 100KHz, 0.1 Vrms.

**Operating Temp. Range:**  $-40^{\circ}$  to  $+85^{\circ}\text{C}$ .

**Inductance Drop:** 20% typically at the rated Isat.

**Temperature rise:**  $\Delta T = 30^{\circ}\text{C}$  typical at Irms.

## Physical

**Marking:** Notice: We will be changing our marking system to the 4 character EIA code for inductance and tolerance. For example: "101K" for 100 $\mu\text{h}$  10%.

**Packaging:** 1000 pieces per 13 inch reel.

All specifications subject to change without notice.