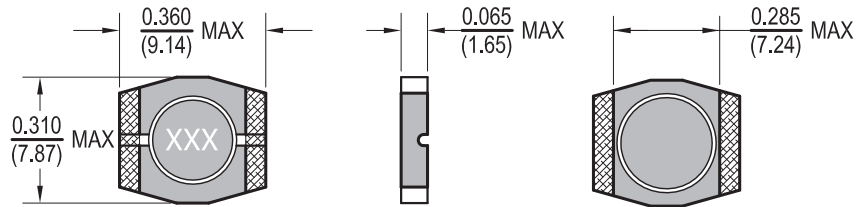




# Power Chip Low Profile Inductors

# PCLP20

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



| Allied Part Number | Inductance ( $\mu\text{H}$ ) | Tolerance (%) | Test Freq. KHz, 1v | DCR Max. ( $\Omega$ ) | Isat (A) |
|--------------------|------------------------------|---------------|--------------------|-----------------------|----------|
| PCLP20-4R7M-RC     | 4.7                          | 20            | 100                | .145                  | 1.6      |
| PCLP20-6R8M-RC     | 6.8                          | 20            | 100                | .165                  | 1.3      |
| PCLP20-100M-RC     | 10                           | 20            | 100                | .240                  | 1.0      |
| PCLP20-150M-RC     | 15                           | 20            | 100                | .300                  | 0.9      |
| PCLP20-220M-RC     | 22                           | 20            | 100                | .420                  | 0.7      |
| PCLP20-330M-RC     | 33                           | 20            | 100                | .550                  | 0.6      |
| PCLP20-470M-RC     | 47                           | 20            | 100                | .765                  | 0.4      |
| PCLP20-680M-RC     | 68                           | 20            | 100                | 1.10                  | 0.4      |
| PCLP20-101M-RC     | 100                          | 20            | 100                | 1.60                  | 0.3      |
| PCLP20-151M-RC     | 150                          | 20            | 100                | 2.50                  | .25      |
| PCLP20-221M-RC     | 220                          | 20            | 100                | 3.65                  | .22      |
| PCLP20-331M-RC     | 330                          | 20            | 100                | 4.65                  | .18      |
| PCLP20-471M-RC     | 470                          | 20            | 100                | 6.75                  | 14       |
| PCLP20-681M-RC     | 680                          | 20            | 100                | 9.15                  | .12      |
| PCLP20-102M-RC     | 1000                         | 20            | 100                | 14.2                  | .10      |

All specifications subject to change without notice.

## Features

- Unshielded SMD low cost design
- Designed for high current applications
- Accurate and consistent dimensions for auto insertion
- Excellent for use in DC-DC converter applications

## Electrical

**Inductance Range:** 4.7 $\mu\text{H}$  to 1000 $\mu\text{H}$

**Tolerance:** 20% over entire range

Also available in tighter tolerances

**Test Frequency:** (L/Q) as specified

**Operating Temp:** -40°C ~ +85°C

**IDC:** Current at which Inductance drops 10% of original value

## Resistance to Soldering Heat

**Test Method:** Pre-Heat 150°C, 1 Min.

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

**Solder Temp:** 260°C +/- 5°C for 10 sec  $\pm$  1 sec.

## Test Equipment

**(L & Q):** HP4192A Impedance Analyzer

**(DCR):** Chen Hwa 502

**(IDC):** HP4284A with HP42841A or CH1061 with CH301A

## Physical

**Packaging:** 2500 pieces per 13 inch reel.

**Marking:** EIA Inductance Code.