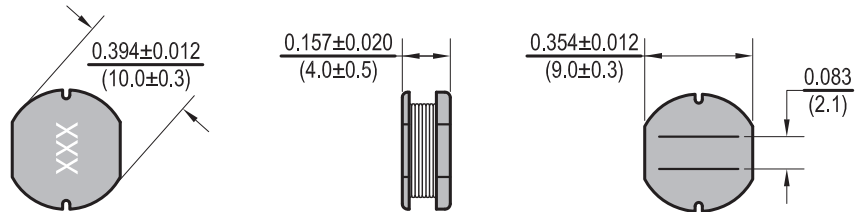




Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



| Allied Part Number | Inductance (μh) | Tolerance (%) | Test Freq. | DCR Max. (Ω) | IDC Max. (A) |
|--------------------|-----------------|---------------|------------|--------------|--------------|
| PC1004-1R0M-RC     | 1.0             | 20            | 100KHz,1V  | .009         | 6.00         |
| PC1004-3R3M-RC     | 3.3             | 20            | 7.96MHz,1V | 0.022        | 4.50         |
| PC1004-3R8M-RC     | 3.8             | 20            | 7.96MHz,1V | 0.02         | 4.20         |
| PC1004-6R8M-RC     | 6.8             | 20            | 7.96MHz,1V | 0.04         | 3.00         |
| PC1004-100M-RC     | 10              | 20            | 2.52MHz,1V | 0.05         | 2.38         |
| PC1004-120M-RC     | 12              | 20            | 2.52MHz,1V | 0.06         | 2.13         |
| PC1004-150M-RC     | 15              | 20            | 2.52MHz,1V | 0.07         | 1.87         |
| PC1004-180M-RC     | 18              | 20            | 2.52MHz,1V | 0.08         | 1.73         |
| PC1004-220M-RC     | 22              | 20            | 2.52MHz,1V | 0.09         | 1.60         |
| PC1004-270M-RC     | 27              | 20            | 2.52MHz,1V | 0.10         | 1.44         |
| PC1004-330K-RC     | 33              | 10            | 2.52MHz,1V | 0.12         | 1.26         |
| PC1004-390K-RC     | 39              | 10            | 2.52MHz,1V | 0.15         | 1.20         |
| PC1004-470K-RC     | 47              | 10            | 2.52MHz,1V | 0.17         | 1.10         |
| PC1004-560K-RC     | 56              | 10            | 2.52MHz,1V | 0.20         | 1.01         |
| PC1004-680K-RC     | 68              | 10            | 2.52MHz,1V | 0.22         | 0.91         |
| PC1004-820K-RC     | 82              | 10            | 2.52MHz,1V | 0.30         | 0.85         |
| PC1004-101K-RC     | 100             | 10            | 1KHz,1V    | 0.34         | 0.74         |
| PC1004-121K-RC     | 120             | 10            | 1KHz,1V    | 0.40         | 0.69         |
| PC1004-151K-RC     | 150             | 10            | 1KHz,1V    | 0.54         | 0.61         |
| PC1004-181K-RC     | 180             | 10            | 1KHz,1V    | 0.62         | 0.56         |
| PC1004-221K-RC     | 220             | 10            | 1KHz,1V    | 0.72         | 0.53         |
| PC1004-271K-RC     | 270             | 10            | 1KHz,1V    | 0.95         | 0.45         |
| PC1004-331K-RC     | 330             | 10            | 1KHz,1V    | 1.10         | 0.42         |
| PC1004-391K-RC     | 390             | 10            | 1KHz,1V    | 1.24         | 0.38         |
| PC1004-471K-RC     | 470             | 10            | 1KHz,1V    | 1.53         | 0.35         |
| PC1004-561K-RC     | 560             | 10            | 1KHz,1V    | 1.90         | 0.32         |

All specifications subject to change without notice.

### Features

- Unshielded SMD Power Inductor
- Available in magnetically shielded
- Suitable for large currents
- Ideal for DC-DC converter applications

### Electrical

**Inductance Range:** 10μh to 560μh

**Tolerance:** Standard tolerance as shown.  
Most values available in tighter tolerances.

**Test Frequency:** As noted

**Operating Temp:** -40°C ~ +85°C

**IDC:** Current at which Inductance drops 10% of original value with a ΔT= 40 C whichever is lower.

### 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 ± 1 sec.

### Test Equipment

**(L):** HP4192A LF Impedance Analyzer

**(RDC):** Chen Hwa 502BC

**(IDC):** HP4284A with HP42841A or  
Chen Hwa 1061 + Chen Hwa 301A

### Physical

**Packaging:** 700 pieces per 13 inch reel.

**Marking:** EIA Inductance Code.