

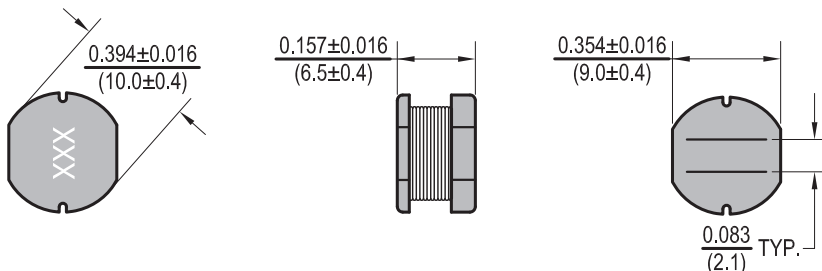


## Power Chip Inductors

## PC1006



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



| Allied Part Number | Inductance (mH) | Tolerance (%) | Test Freq. KHz, 1v | DCR Max. ( $\Omega$ ) | IDC Max. (A) |
|--------------------|-----------------|---------------|--------------------|-----------------------|--------------|
| PC1006-602K-RC     | 6000            | 10            | 1                  | 14                    | 0.27         |
| PC1006-822K-RC     | 8200            | 10            | 1                  | 50                    | 0.20         |

All specifications subject to change without notice.

### Features

- Unshielded SMD Power Inductor
- High Saturation Current
- Suitable for large currents
- Ideal for DC-DC converter applications

### Electrical

**Inductance Range:** 6mH to 8.2mH

**Tolerance:** 20% over entire range

Also 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  $\Delta T = 40^\circ\text{C}$  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  $\pm$  1 sec.

### Test Equipment

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

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

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

### Physical

**Packaging:** 500 pieces per 13 inch reel.

**Marking:** EIA Inductance Code.