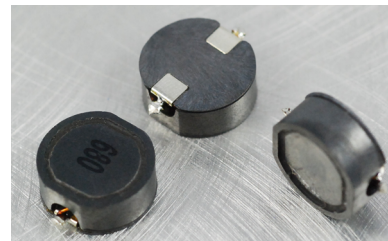
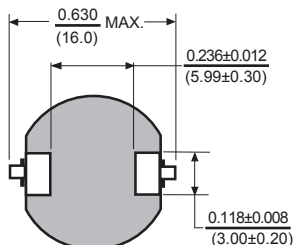
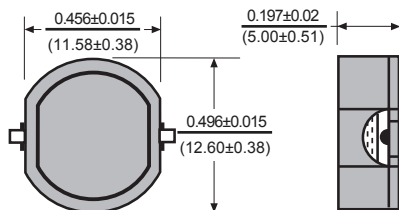


# PCS45 Power Chip Shielded Inductors



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



## Features

- Small size allows for high mounting density
- Suitable for Reflow Solder
- Large DC current capability with low DC resistance
- Embossed carrier tape available
- Polarity identification available
- Custom inductances available

## Characteristics

**Operating Temp.:** -30° to +100°C.

**External Appearance:** Clean & no external defects by visual inspection

**Terminal Strength:** After soldering, push the coils will withstand the followings without falling off. 20.0N 20 sec.

**Heat Endurance:** Heat at 150°C for 3 minutes; then 200°C for 25 seconds. No mechanical or electrical defect after that when back at room temperature.

**Insulation:** Over 100M ohm at 100 VDC (coil and core).

**Dielectric:** 100VDC for one minute (coil and core).

**Temperature Characteristics:** (0 to 2000) x 10<sup>-6</sup>°C.

## Environmental

**Humidity:** Deviate +/-5%, after 96 hours in 90-95% relative humidity at 40°C and 1 hour of drying.

**Vibration:** Deviate +/-5%, vibration of 1 hour, three direction; 10-55-10 Hz; 1.5mm p-p amplitude.

**Shock:** Deviate 5% after drop down 100G shock attitude of one time in each direction.

## Physical

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

Allied Part Number	Inductance (µh)	Tolerance (%)	Test Freq. (MHz)	DCR Max. (Ω)	*Rated Current (A)
PCS45-100M-RC	10	20	2.52	0.05	2.50
PCS45-120M-RC	12	20	2.52	0.06	2.40
PCS45-150M-RC	15	20	2.52	0.07	2.30
PCS45-180M-RC	18	20	2.52	0.08	2.20
PCS45-220M-RC	22	20	2.52	0.09	2.10
PCS45-270M-RC	27	20	2.52	0.10	2.00
PCS45-330L-RC	33	15	2.52	0.11	1.90
PCS45-390L-RC	39	15	2.52	0.12	1.80
PCS45-470L-RC	47	15	2.52	0.14	1.60
PCS45-560L-RC	56	15	2.52	0.15	1.40
PCS45-680L-RC	68	15	2.52	0.18	1.30
PCS45-820L-RC	82	15	2.52	0.20	1.20
PCS45-101L-RC	100	15	1KHz	0.28	1.10
PCS45-121L-RC	120	15	1KHz	0.32	0.97
PCS45-151L-RC	150	15	1KHz	0.38	0.86
PCS45-181L-RC	180	15	1KHz	0.50	0.84
PCS45-221L-RC	220	15	1KHz	0.58	0.72
PCS45-271L-RC	270	15	1KHz	0.78	0.65
PCS45-331L-RC	330	15	1KHz	0.92	0.61
PCS45-391L-RC	390	15	1KHz	1.04	0.58
PCS45-471L-RC	470	15	1KHz	1.18	0.50
PCS45-561L-RC	560	15	1KHz	1.52	0.48
PCS45-681L-RC	680	15	1KHz	1.80	0.43
PCS45-821L-RC	820	15	1KHz	2.04	0.38

\*Inductance drop no more than 10% at rated current applied or temperature rise  $\Delta T = 40^\circ\text{C}$ . All specifications subject to change without notice.