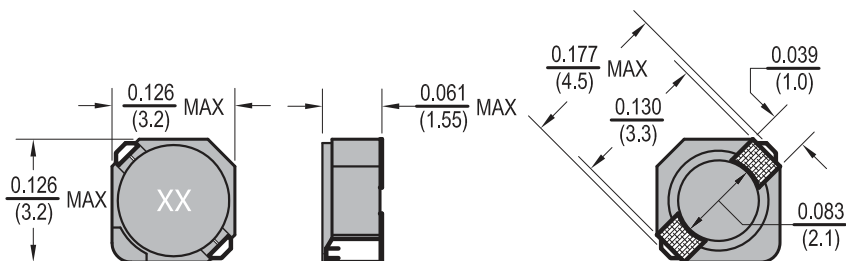




# Power Chip Shielded Inductors PCS2D14



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



Allied Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Freq. KHz, 1v	DCR ( $\Omega$ ) Max	Rated Current (A)	I <sub>rms</sub> (A) Typ.
PCS2D14-R47T-RC	.47	30	100	0.040	2.00	
PCS2D14-1R5T-RC	1.5	30	100	0.063	1.80	2.00
PCS2D14-1R8T-RC	1.8	30	100	0.075	1.65	1.80
PCS2D14-2R2T-RC	2.2	30	100	0.094	1.50	1.60
PCS2D14-2R7T-RC	2.7	30	100	0.106	1.35	1.40
PCS2D14-3R3T-RC	3.3	30	100	0.125	1.20	1.24
PCS2D14-3R9T-RC	3.9	30	100	0.138	1.10	1.12
PCS2D14-4R1T-RC	4.1	30	100	0.169	1.00	1.00
PCS2D14-4R7T-RC	4.7	30	100	0.169	1.00	1.00
PCS2D14-5R6T-RC	5.6	30	100	0.188	0.95	0.98
PCS2D14-6R8T-RC	6.8	30	100	0.213	0.85	0.92
PCS2D14-8R2T-RC	8.2	30	100	0.281	0.80	0.80
PCS2D14-100T-RC	10	30	100	0.294	0.70	0.76
PCS2D14-120T-RC	12	30	100	0.394	0.62	0.64

All specifications subject to change without notice.

## Features

- Shielded SMD Power Inductor
- Low profile
- Low DC resistance
- Ideal for DC-DC converter applications

## Electrical

**Inductance Range:** .47 $\mu$ H to 12 $\mu$ H

**Tolerance:** 30% over entire range

Also, available in tighter tolerances

**Operating Temp:** -35°C ~ +100°C

**Rated Current:** Current at which inductance drop is equal to 35% typ.

**I<sub>rms</sub>:** current at which  $\Delta T=40^\circ\text{C}$  temp rise

## 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):** PM3260A / HP4284A / HP4285A

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

**Rated Current:** HP4284A+HP42841A or  
Chen Hwa 1061 + Chen Hwa 301A

## Physical

**Packaging:** 1000 pieces per 7 inch reel.

**Marking:** 2 Character Alpha Code