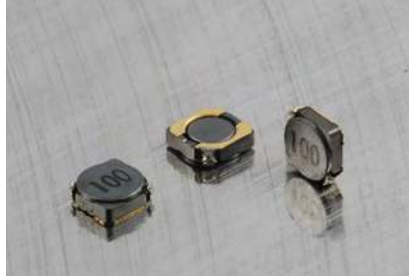
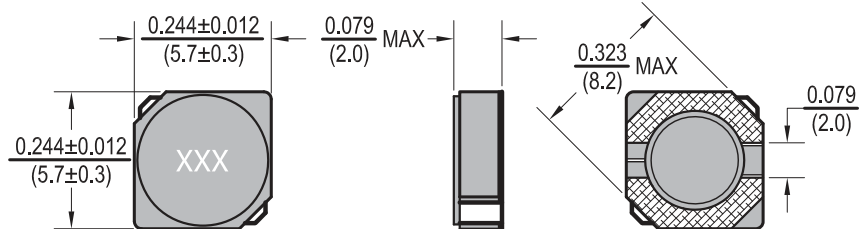




# Power Chip Shielded Inductors PCS5D18



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



Allied Part Number	Inductance (μh)	Tolerance (%)	Test Freq. KHz, 1V	RDC (Ω) Max.	Rated Current (A)
PCS5D18-1R0T-RC	1.0	30	10	.038	2.80
PCS5D18-1R5T-RC	1.5	30	10	.038	2.50
PCS5D18-3R3T-RC	3.3	30	10	.056	1.90
PCS5D18-4R1T-RC	4.1	30	10	.057	1.95
PCS5D18-4R7T-RC	4.7	30	10	.076	1.60
PCS5D18-5R4T-RC	5.4	30	10	.076	1.60
PCS5D18-6R2T-RC	6.2	30	10	.096	1.40
PCS5D18-6R8T-RC	6.8	30	10	.100	1.35
PCS5D18-8R9T-RC	8.9	30	10	.116	1.25
PCS5D18-100T-RC	10	30	10	.124	1.20
PCS5D18-120T-RC	12	30	10	.153	1.10
PCS5D18-150T-RC	15	30	10	.196	0.97
PCS5D18-180T-RC	18	30	10	.210	0.85
PCS5D18-220T-RC	22	30	10	.290	0.80
PCS5D18-270T-RC	27	30	10	.330	0.75
PCS5D18-330T-RC	33	30	10	.386	0.65
PCS5D18-390T-RC	39	30	10	.520	0.57
PCS5D18-470T-RC	47	30	10	.595	0.54
PCS5D18-560T-RC	56	30	10	.665	0.50
PCS5D18-680T-RC	68	30	10	.840	0.43
PCS5D18-820T-RC	82	30	10	.978	0.41
PCS5D18-101T-RC	100	30	10	1.20	0.36

All specifications subject to change without notice.

## Features

- Shielded SMD Power Inductor
- Available in magnetically shielded
- Low DC resistance
- Ideal for DC-DC converter applications

## Electrical

**Inductance Range:** 1μh to 100μh

**Tolerance:** 30% over entire range

Also, available in tighter tolerances

**Operating Temp:** -30°C ~ +100°C

**Rated Current:** Current at which inductance drop by 35% of initial value or ΔT=40°C lower, 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):** HP4284A LF Impedance Analyzer

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

**Rated Current:** HP4284+HP42841A or  
Chen Hwa 1061 + Chen Hwa 301A

## Physical

**Packaging:** 1500 pieces per 13 inch reel.

**Marking:** EIA Inductance Code