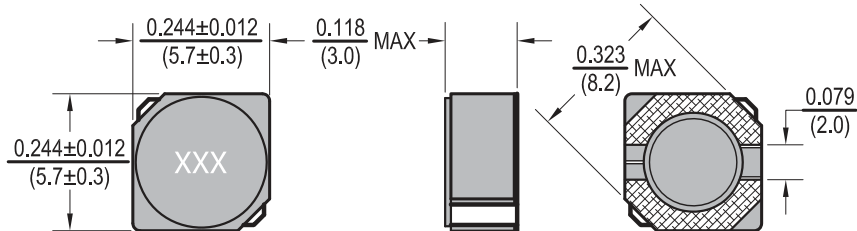




# Power Chip Shielded Inductors PCS5D28



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



Allied Part Number	Inductance (μh)	Tolerance (%)	Test Freq. KHz, 1V	RDC (Ω) Max.	Rated Current (A)
PCS5D28-1R0N-RC	1.0	30	10	.015	3.5
PCS5D28-1R5N-RC	1.5	30	10	.015	3.0
PCS5D28-2R2N-RC	2.2	30	10	.018	2.6
PCS5D28-2R5N-RC	2.5	30	10	.018	2.6
PCS5D28-2R6N-RC	2.6	30	10	.022	2.4
PCS5D28-3R0N-RC	3.0	30	10	.024	2.4
PCS5D28-3R3N-RC	3.3	30	10	.027	2.1
PCS5D28-4R2N-RC	4.2	30	10	.031	2.2
PCS5D28-4R7N-RC	4.7	30	10	.038	1.9
PCS5D28-5R0N-RC	5.0	30	10	.038	1.9
PCS5D28-5R3N-RC	5.3	30	10	.038	1.9
PCS5D28-6R2N-RC	6.2	30	10	.045	1.8
PCS5D28-6R8N-RC	6.8	30	10	.050	1.65
PCS5D28-8R2N-RC	8.2	30	10	.053	1.6
PCS5D28-100N-RC	10	30	10	.065	1.3
PCS5D28-120N-RC	12	30	10	.076	1.2
PCS5D28-150N-RC	15	30	10	.103	1.1
PCS5D28-180N-RC	18	30	10	.110	1.0
PCS5D28-220N-RC	22	30	10	.122	0.9
PCS5D28-270N-RC	27	30	10	.175	.85
PCS5D28-330N-RC	33	30	10	.189	.75
PCS5D28-390N-RC	39	30	10	.212	.70
PCS5D28-470N-RC	47	30	10	.250	.62
PCS5D28-560N-RC	56	30	10	.305	.58
PCS5D28-680N-RC	68	30	10	.355	.52
PCS5D28-820N-RC	82	30	10	.463	.46
PCS5D28-101N-RC	100	30	10	.520	.42
PCS5D28-181N-RC	180	30	10	1.05	.29
PCS5D28-221N-RC	220	30	10	1.20	.28
PCS5D28-331N-RC	330	30	10	1.70	.19
PCS5D28-391N-RC	390	30	10	1.80	.18
PCS5D28-471N-RC	470	30	10	2.50	.15
PCS5D28-561N-RC	560	30	10	3.20	.12

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:** 1.5μh to 560μh  
**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 pcs per 13 inch reel  
**Marking:** EIA Inductance Code