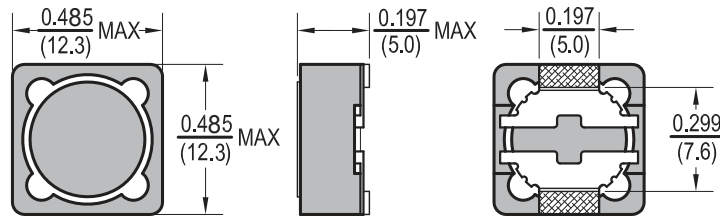




# Power Chip Shielded Inductors PCSDR124



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



Allied Part Number	Inductance (-h)	Tolerance (%)	Test Freq, KHz, 0.1V	DCR ( $\Omega$ )	I rms (A)	I sat (A)
PCSDR124-R47T-RC	0.47	30	100	0.0022	15.377	30.800
PCSDR124-R82T-RC	0.82	30	100	0.0037	12.114	22.000
PCSDR124-1R5T-RC	1.5	30	100	0.0055	9.619	17.100
PCSDR124-2R2T-RC	2.2	30	100	0.0070	8.566	14.000
PCSDR124-3R3T-RC	3.3	30	100	0.0100	7.161	11.800
PCSDR124-3R9T-RC	3.9	30	100	0.0149	5.859	10.300
PCSDR124-4R7T-RC	4.7	30	100	0.0160	5.657	9.060
PCSDR124-6R8T-RC	6.8	30	100	0.0220	4.823	8.110
PCSDR124-7R6T-RC	7.6	30	100	0.0250	4.523	7.330
PCSDR124-100M-RC	10	20	100	0.0307	4.077	6.700
PCSDR124-120M-RC	12	20	100	0.4110	3.538	5.700
PCSDR124-150M-RC	15	20	100	0.0437	3.419	5.310
PCSDR124-180M-RC	18	20	100	0.0554	3.035	4.670
PCSDR124-220M-RC	22	20	100	0.0642	2.820	4.400
PCSDR124-270M-RC	27	20	100	0.0761	2.591	3.950
PCSDR124-330M-RC	33	20	100	0.0911	2.368	3.580
PCSDR124-390M-RC	39	20	100	0.1209	2.056	3.280
PCSDR124-470M-RC	47	20	100	0.1458	1.872	3.020
PCSDR124-560M-RC	56	20	100	0.1709	1.729	2.700
PCSDR124-680M-RC	68	20	100	0.2220	1.517	2.440
PCSDR124-820M-RC	82	20	100	0.2484	1.434	2.230
PCSDR124-101M-RC	100	20	100	0.3276	1.249	2.000
PCSDR124-121M-RC	120	20	100	0.3790	1.161	1.810
PCSDR124-151M-RC	150	20	100	0.4308	1.089	1.630
PCSDR124-181M-RC	180	20	100	0.6103	0.915	1.500
PCSDR124-221M-RC	220	20	100	0.6492	0.887	1.360
PCSDR124-271M-RC	270	20	100	0.9540	0.732	1.230
PCSDR124-331M-RC	330	20	100	1.0000	0.714	1.110
PCSDR124-391M-RC	390	20	100	1.3420	0.617	1.050
PCSDR124-471M-RC	470	20	100	1.4640	0.591	0.940
PCSDR124-561M-RC	560	20	100	1.8230	0.529	0.860
PCSDR124-681M-RC	680	20	100	2.1840	0.484	0.770
PCSDR124-821M-RC	820	20	100	2.4480	0.457	0.700
PCSDR124-102M-RC	1000	20	100	3.2280	0.398	0.650
PCSDR124-122M-RC	1200	20	100	5.0770	0.317	0.600

All specifications subject to change without notice.

## Features

- Magnetically Shielded
- High saturation current
- Expanded operating temp range
- Low DC Resistance
- High Energy Storage
- Low Energy Loss
- Suitable for pick and place

## Electrical

**Inductance Range:** .47 $\mu$ h to 1200 $\mu$ h

**Tolerance:** .47 $\mu$ h~7.6 $\mu$ h 30%,  
10 $\mu$ h~1200 $\mu$ h 20%

Available in tighter tolerances

**Test Frequency:** 100KHz, 0.1V

**Operating Temp:** -55°C ~ +125°C

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

**I<sub>sat</sub>:** Current at which the inductance drops 35% from initial value

## Resistance to Soldering Heat

Pre-Heat 150°C, 1 Min.

**Solder Composition:** Sn/Ag3.0/Cu0.5

**Solder Temp:** 260°C +/- 5°C

**Immersion time:** 10 sec. +/- 1 sec.

## Test Equipment

**(L):** HP 4284A LCR meter or equivalent

**(RDC):** HP 4338B Milliohm meter or equivalent

**(IDC):** 3260B WK & DC Bias 3265B WK

## Physical

**Packaging:** 600 pieces per 13 inch reel.

**Marking:** EIA Inductance Code.