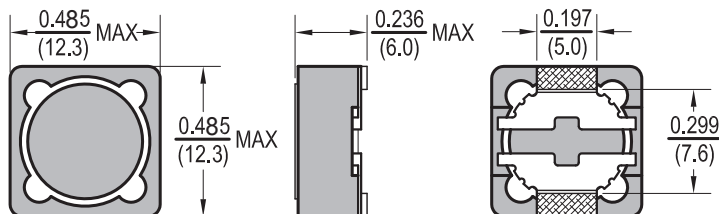




# Power Chip Shielded Inductors PCSDR125



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



Allied Part Number	Inductance ( $\mu\text{H}$ )	Tolerance (%)	Test Freq, KHz, 0.1V	DCR ( $\Omega$ ) Max	I rms (A)	I sat (A)
PCSDR125-R47T-RC	0.47	30	100	0.0022	17.401	32.96
PCSDR125-R82T-RC	0.82	30	100	0.0029	15.069	23.54
PCSDR125-1R0T-RC	1.0	30	100	0.0005	11.000	5.300
PCSDR125-1R5T-RC	1.5	30	100	0.0035	13.709	18.31
PCSDR125-2R2T-RC	2.2	30	100	0.0054	11.005	14.98
PCSDR125-3R3T-RC	3.3	30	100	0.0076	9.301	12.68
PCSDR125-3R9T-RC	3.9	30	100	0.0099	7.346	10.99
PCSDR125-4R7T-RC	4.7	30	100	0.0126	7.204	9.690
PCSDR125-6R8T-RC	6.8	30	100	0.0148	6.656	8.670
PCSDR125-8R2M-RC	8.2	20	100	0.0200	5.565	7.850
PCSDR125-100M-RC	10	20	100	0.0227	5.370	7.170
PCSDR125-120M-RC	12	20	100	0.0250	4.736	6.590
PCSDR125-150M-RC	15	20	100	0.0334	4.277	5.680
PCSDR125-180M-RC	18	20	100	0.0373	3.896	5.320
PCSDR125-220M-RC	22	20	100	0.0475	3.710	4.710
PCSDR125-270M-RC	27	20	100	0.0594	3.318	4.230
PCSDR125-330M-RC	33	20	100	0.0606	3.285	3.830
PCSDR125-390M-RC	39	20	100	0.0767	2.920	3.510
PCSDR125-470M-RC	47	20	100	0.0888	2.714	3.230
PCSDR125-560M-RC	56	20	100	0.1062	2.482	2.890
PCSDR125-680M-RC	68	20	100	0.1282	2.323	2.620
PCSDR125-820M-RC	82	20	100	0.1700	2.063	2.460
PCSDR125-101M-RC	100	20	100	0.2040	1.790	2.200
PCSDR125-121M-RC	120	20	100	0.2350	1.668	2.030
PCSDR125-151M-RC	150	20	100	0.3350	1.482	1.810
PCSDR125-181M-RC	180	20	100	0.3630	1.341	1.660
PCSDR125-221M-RC	220	20	100	0.4920	1.191	1.510
PCSDR125-271M-RC	270	20	100	0.5700	1.091	1.340
PCSDR125-331M-RC	330	20	100	0.6500	1.063	1.200
PCSDR125-391M-RC	390	20	100	0.7200	0.969	1.110
PCSDR125-471M-RC	470	20	100	0.9820	0.871	1.010
PCSDR125-561M-RC	560	20	100	1.1300	0.778	0.910
PCSDR125-681M-RC	680	20	100	1.3200	0.704	0.850
PCSDR125-821M-RC	820	20	100	1.7880	0.605	0.770
PCSDR125-102M-RC	1000	20	100	2.0280	0.568	0.700
PCSDR125-122M-RC	1200	20	100	2.3300	0.530	0.630

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 $\mu\text{H}$  to 1200 $\mu\text{H}$

**Tolerance:** .47 $\mu\text{H}$ ~6.8 $\mu\text{H}$  30%,  
8.2 $\mu\text{H}$ ~1200 $\mu\text{H}$  20%

Available in tighter tolerances

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

**Operating Temp:** -55°C ~ +125°C

**Irms:** Current at which the  $\Delta T=40^\circ\text{C}$

**Isat:** 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.