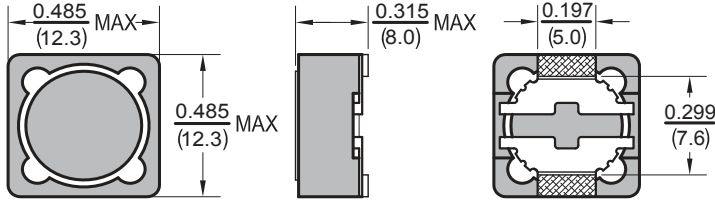


# Power Chip Shielded Inductors PCSDR127

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



Allied Part Number	Inductance (μH)	Tolerance (%)	Test Freq. KHz, V	DCR (Ω)	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)
PCSDR127-R47T-RC	0.47	30	100, .25	.0023	17.896	56.00
PCSDR127-1R0T-RC	1.0	30	100, .25	.0031	15.469	40.00
PCSDR127-1R5T-RC	1.5	30	100, .25	.0041	13.533	31.11
PCSDR127-2R2T-RC	2.2	30	100, .25	.0048	12.464	25.45
PCSDR127-2R7T-RC	2.7	30	100, .25	.0068	10.495	21.54
PCSDR127-3R9T-RC	3.9	30	100, .25	.0108	8.330	18.67
PCSDR127-4R7T-RC	4.7	30	100, .25	.0110	8.253	16.47
PCSDR127-5R6T-RC	5.6	30	100, .25	.0134	7.535	14.74
PCSDR127-6R8T-RC	6.8	30	100, .25	.0139	7.337	13.33
PCSDR127-8R2M-RC	8.2	20	100, .25	.0188	6.307	12.17
PCSDR127-100M-RC	10	20	100, .25	.0206	6.026	11.20
PCSDR127-120M-RC	12	20	100, .25	.0241	5.574	10.37
PCSDR127-150M-RC	15	20	100, .25	.0296	5.028	9.660
PCSDR127-180M-RC	18	20	100, .25	.0437	4.142	8.480
PCSDR127-220M-RC	22	20	100, .25	.0469	3.997	7.570
PCSDR127-270M-RC	27	20	100, .25	.0580	3.596	6.830
PCSDR127-330M-RC	33	20	100, .25	.0720	3.226	6.220
PCSDR127-390M-RC	39	20	100, .25	.0764	3.131	5.710
PCSDR127-470M-RC	47	20	100, .25	.0863	2.947	5.280
PCSDR127-560M-RC	56	20	100, .25	.0945	2.815	4.910
PCSDR127-680M-RC	68	20	100, .25	.1260	2.439	4.440
PCSDR127-820M-RC	82	20	100, .25	.1716	2.090	3.940
PCSDR127-101M-RC	100	20	100, .25	.1956	1.957	3.640
PCSDR127-121M-RC	120	20	100, .25	.2334	1.832	3.290
PCSDR127-151*_RC	150	10,20	100, .25	.2964	1.590	2.950
PCSDR127-181M-RC	180	20	100, .25	.3288	1.510	2.720
PCSDR127-221M-RC	220	20	100, .25	.4512	1.289	2.430
PCSDR127-271M-RC	270	20	100, .25	.5080	1.214	2.200
PCSDR127-331M-RC	330	20	100, .25	.6888	1.043	1.990
PCSDR127-391M-RC	390	20	100, .25	.8890	0.918	1.830
PCSDR127-471M-RC	470	20	100, .25	1.0332	0.852	1.680
PCSDR127-561M-RC	560	20	100, .25	1.132	0.814	1.530
PCSDR127-681M-RC	680	20	100, .25	1.296	0.760	1.390
PCSDR127-821M-RC	820	20	100, .25	1.764	0.652	1.270
PCSDR127-102M-RC	1000	20	100, .25	1.992	0.613	1.140
PCSDR127-122M-RC	1200	20	100, .25	2.610	0.536	1.050
PCSDR127-332K-RC	3300	10	1, .1	5.000	0.350	0.35

\*Insert desired tolerance designator: K=±10%, M=±20%, T=±30%  
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:** .47μH to 3300μH  
**Tolerance:** .47μH - 6.8μH ±30%, 8.2μH - 1200μH ±20%, 3300μH ±10%  
 Available in tighter tolerances  
**Operating Temp:** -55°C to +125°C  
**I<sub>rms</sub>:** Current at which the ΔT=40°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  
**(DCR):** HP 4338B Milliohm meter or equivalent  
**(IDC):** 3260B WK & DC Bias 3265B WK

### Physical

**Packaging:** 500 pieces per 13 inch reel  
**Marking:** EIA Inductance Code

