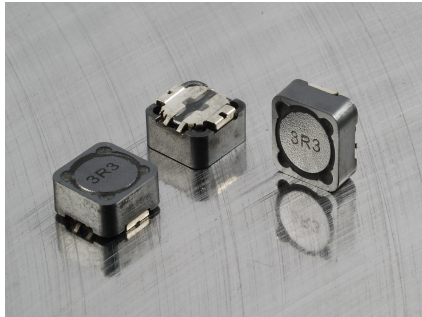


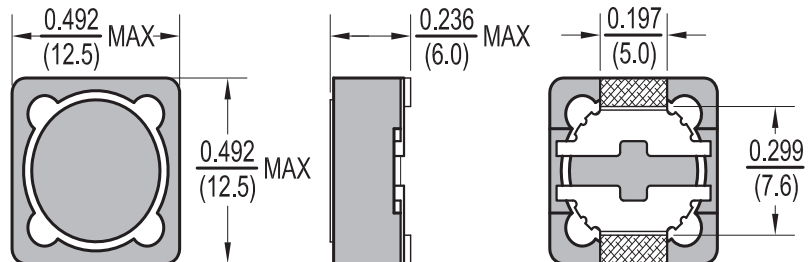


Power Chip Shielded Inductors

PCS125



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



Allied Part Number	Inductance (μH)	Tolerance (±%)	Test Freq. KHz, 0.25V	DCR (Ω) Max	IDC Current (A)
PCS125-1R3M-RC	1.3	20	100	.012	8.00
PCS125-2R1M-RC	2.1	20	100	.014	7.00
PCS125-2R2M-RC	2.2	20	100	.014	7.00
PCS125-3R1M-RC	3.1	20	100	.017	6.00
PCS125-3R3M-RC	3.3	20	100	.017	6.75
PCS125-4R4M-RC	4.4	20	100	.020	5.00
PCS125-4R7M-RC	4.7	20	100	.018	6.20
PCS125-5R8M-RC	5.8	20	100	.021	4.40
PCS125-6R8M-RC	6.8	20	100	.023	5.90
PCS125-7R5M-RC	7.5	20	100	.024	4.20
PCS125-8R2M-RC	8.2	20	100	.024	4.10
PCS125-100M-RC	10	20	1	.025	4.00
PCS125-120M-RC	12	20	1	.027	3.50
PCS125-150M-RC	15	20	1	.030	3.30
PCS125-180M-RC	18	20	1	.034	3.00
PCS125-220M-RC	22	20	1	.036	2.80
PCS125-270M-RC	27	20	1	.051	2.30
PCS125-330M-RC	33	20	1	.057	2.10
PCS125-390M-RC	39	20	1	.068	2.00
PCS125-470M-RC	47	20	1	.075	1.80
PCS125-560M-RC	56	20	1	0.11	1.70
PCS125-680M-RC	68	20	1	0.12	1.50
PCS125-820M-RC	82	20	1	0.14	1.40
PCS125-101M-RC	100	20	1	0.16	1.30
PCS125-121M-RC	120	20	1	0.17	1.10
PCS125-151M-RC	150	20	1	0.23	1.00
PCS125-181M-RC	180	20	1	0.29	0.90
PCS125-221M-RC	220	20	1	0.40	0.80
PCS125-271M-RC	270	20	1	0.46	0.75
PCS125-331M-RC	330	20	1	0.51	0.68
PCS125-391M-RC	390	20	1	0.69	0.65
PCS125-471M-RC	470	20	1	0.77	0.58
PCS125-561M-RC	560	20	1	0.86	0.54
PCS125-681M-RC	680	20	1	1.20	0.48
PCS125-821M-RC	820	20	1	1.34	0.43
PCS125-102M-RC	1000	20	1	1.53	0.40

All specifications subject to change without notice.

Features

- Magnetically Shielded
- Low DC Resistance
- High Energy Storage
- Low Energy Loss
- Suitable for pick and place

Electrical

Inductance Range: 1.3μH to 1000μH
Test Frequency: 100KHz, 0.25V and 1KHz, 0.25V

Operation Temp: -40°C to +125°C
IDC: The DC current at which the inductance becomes 25% lower than its initial value or when $\Delta t=40^\circ\text{C}$, whichever is lower. ($T_a=25^\circ\text{C}$)

Resistance to Soldering Heat

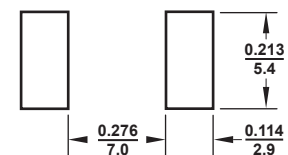
Pre-Heat: 150°C, 1 Min.
Solder Composition: SnCuNi
Solder Temp: 260°C ±5°C
Immersion Time: 10 Sec.

Test Equipment

(L): HP4284A | HP4285A LCR Meter
(DCR): Milli-ohm meter

Physical

Packaging: 400 pieces per 13 inch reel
Marking: EIA Inductance Code.



Recommended Pad Layout