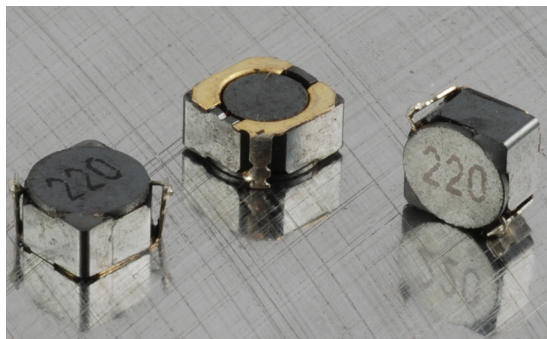


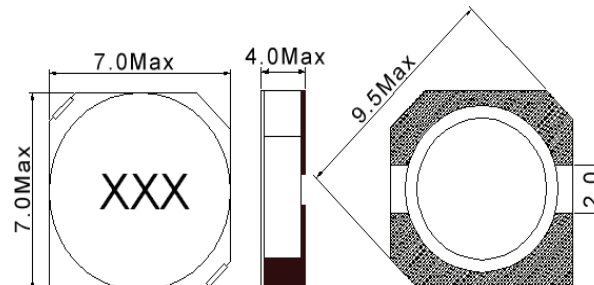


Power Chip Shielded Inductor

PCS6D38-AU

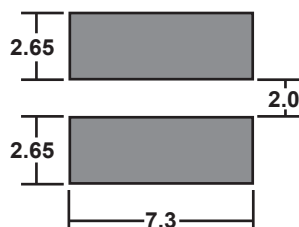


Dimensions: mm



Allied Part Number	Inductance (μH)	Tolerance (±%)	Test Freq. KHz, 0.1V	DCR (Ω) Max	Rated Current (A)
PCS6D28-2R2N-AU	2.2	30	10	.018	3.8
PCS6D28-2R7N-AU	2.7	30	10	.020	3.6
PCS6D28-3R3N-AU	3.3	30	10	.020	3.5
PCS6D28-4R7N-AU	4.7	30	10	.022	3.1
PCS6D28-5R0N-AU	5.0	30	10	.024	2.9
PCS6D28-5R6N-AU	5.6	30	10	.027	2.5
PCS6D28-6R2N-AU	6.2	30	10	.027	2.5
PCS6D28-6R8N-AU	6.8	30	10	.031	2.3
PCS6D28-7R4N-AU	7.4	30	10	.031	2.3
PCS6D28-8R7N-AU	8.7	30	10	.034	2.2
PCS6D28-100M-AU	10	20	10	.038	2.0
PCS6D28-120N-AU	12	30	10	.053	1.7
PCS6D28-150M-AU	15	20	10	.057	1.6
PCS6D28-180N-AU	18	30	10	.092	1.5
PCS6D28-220M-AU	22	20	10	.096	1.3
PCS6D28-270N-AU	27	30	10	.109	1.2
PCS6D28-330M-AU	33	20	10	.124	1.1
PCS6D28-390M-AU	39	20	10	.138	1.0
PCS6D28-470M-AU	47	20	10	.150	.95
PCS6D28-560N-AU	56	30	10	.202	.85
PCS6D28-680M-AU	68	20	10	.234	.75
PCS6D28-820N-AU	82	30	10	.324	.70
PCS6D28-101M-AU	100	20	10	.358	.65
PCS6D28-221M-AU	220	20	100	.710	.32
PCS6D28-561N-AU	560	30	10	1.80	.22

All specifications subject to change without notice.



Recommended PCB Layout

Features

- Shielded SMD Power Inductor
- Designed to meet AEC-Q200
- Low profile
- Low DC resistance
- Ideal for pick and place

Electrical

Inductance Range: 2.2μH - 560μH

Tolerance: 20% or 30% across range

Operating Temp: -40°C to +125°C

Storage Temp: Under 25°C

Rated Current: Current at which inductance drop by 30% 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

Inductance: HP4284A

DCR: 16502

Rated Current: HP4284+HP42841A

Physical

Packaging: 1000 pieces per 13 inch reel.

Marking: EIA Inductance Code