



CSS0528P Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

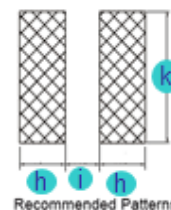
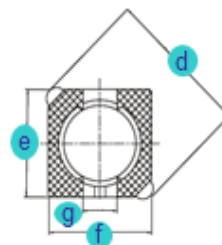
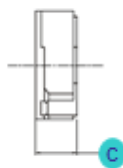
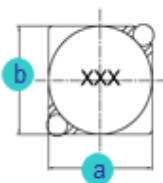
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance (μ H)	Test Freq. (KHz)	DCR Max. (m Ω)	Rated Current (A)
CSS0528P-2R5N	2R5	2.5	10	18	2.60
CSS0528P-3R0N	3R0	3.0	10	24	2.40
CSS0528P-4R2N	4R2	4.2	10	31	2.20
CSS0528P-5R3N	5R3	5.3	10	38	1.90
CSS0528P-6R2N	6R2	6.2	10	45	1.80
CSS0528P-8R2N	8R2	8.2	10	53	1.60
CSS0528P-100N	100	10	10	65	1.30
CSS0528P-120N	120	12	10	76	1.20
CSS0528P-150N	150	15	10	103	1.10
CSS0528P-180N	180	18	10	110	1.00
CSS0528P-220N	220	22	10	122	0.90
CSS0528P-270N	270	27	10	175	0.85
CSS0528P-330N	330	33	10	189	0.75
CSS0528P-390N	390	39	10	212	0.70
CSS0528P-470N	470	47	10	250	0.62
CSS0528P-560N	560	56	10	305	0.58
CSS0528P-680N	680	68	10	355	0.52
CSS0528P-820N	820	82	10	463	0.46
CSS0528P-101N	101	100	10	520	0.42

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	k
CSS0528P	5.7 (0.224)	5.7 (0.224)	3.0 (0.118)	8.2 (0.323)	5.5 (0.217)	5.5 (0.217)	2.0 (0.079)	2.15 (0.085)	2.0 (0.079)	6.3 (0.248)
Tol.	± 0.3 (0.012)	± 0.3 (0.012)	Max.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.



C. General Information:

1. CSS0528P-xxx_, "CSS0528P" = P/N, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_": N: $\pm 30\%$, M: $\pm 20\%$, L: $\pm 15\%$
3. Operating temperature range: -30°C to $+100^{\circ}\text{C}$ (Including self-generated heat).
4. Storage temperature: -40°C to $+85^{\circ}\text{C}$.
5. Inductance measured using the HP4284A and Chroma1320 & 3302.
6. DCR measured using Chroma 16502 milliohm meter.
7. Inductance drop no more than 35% of initial value at rated current, temperature rise $\Delta t < 40^{\circ}\text{C}$
8. Inductance and Current range: From 2.5 μH (2.60A) to 100.0 μH (0.42A).
9. MSL: Level 1.

D. Applications:

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers
5. Mobile Communication Devices (Cell Phones, Radios, etc.)
6. PDA, LCD, DVD, BRP, HD.

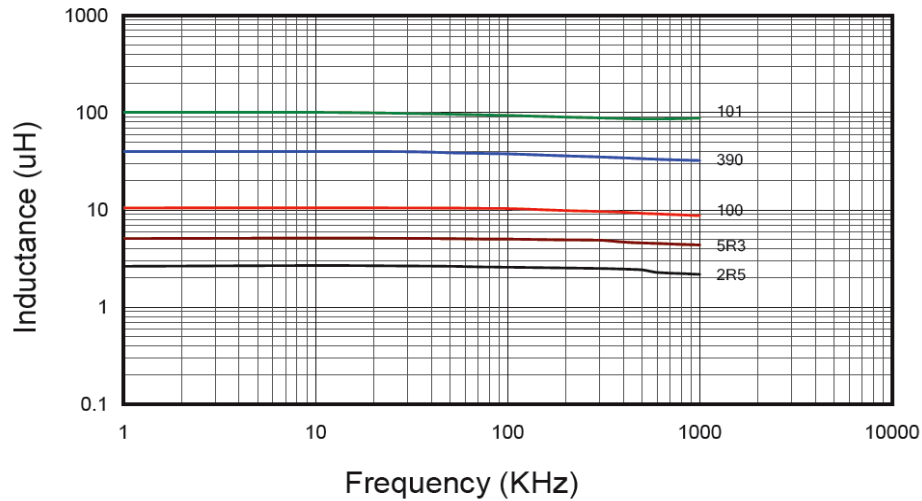


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E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

