



CSS0428P Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

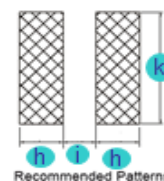
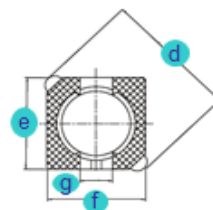
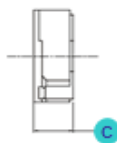
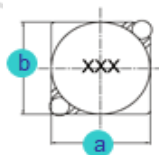
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance (μ H)	Test Freq. (KHz)	DCR Max. (m Ω)	Rated Current (A)
CSS0428P-1R2N	1R2	1.2	100	23.6	2.56
CSS0428P-1R8N	1R8	1.8	100	27.5	2.20
CSS0428P-2R2N	2R2	2.2	100	31.3	2.04
CSS0428P-2R7N	2R7	2.7	100	43.3	1.60
CSS0428P-3R3N	3R3	3.3	100	49.2	1.57
CSS0428P-3R9N	3R9	3.9	100	64.8	1.44
CSS0428P-4R7N	4R7	4.7	100	72.0	1.32
CSS0428P-5R6N	5R6	5.6	100	100.9	1.17
CSS0428P-6R8N	6R8	6.8	100	108.9	1.12
CSS0428P-8R2N	8R2	8.2	100	117.5	1.04
CSS0428P-100N	100	10	100	128.3	1.00
CSS0428P-120N	120	12	100	131.6	0.84
CSS0428P-150N	150	15	100	149.0	0.76
CSS0428P-180N	180	18	100	166.0	0.72
CSS0428P-220N	220	22	100	235.0	0.70
CSS0428P-270N	270	27	100	261.0	0.58
CSS0428P-330N	330	33	100	331.3	0.56
CSS0428P-390N	390	39	100	383.7	0.50
CSS0428P-470N	470	47	100	587.0	0.48
CSS0428P-560N	560	56	100	624.5	0.41
CSS0428P-680N	680	68	100	699.0	0.35
CSS0428P-820N	820	82	100	914.8	0.32
CSS0428P-101N	101	100	100	1020.0	0.29
CSS0428P-121N	121	120	100	1270.0	0.27
CSS0428P-151N	151	150	100	1350.0	0.24
CSS0428P-181N	181	180	100	1540.0	0.22

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	k
CSS0428P	4.7 (0.185)	4.7 (0.185)	3.0 (0.118)	6.9 (0.272)	4.5 (0.177)	4.5 (0.177)	1.5 (0.059)	1.9 (0.075)	1.5 (0.059)	5.3 (0.209)
Tol.	± 0.3 (0.012)	± 0.3 (0.012)	Max.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.



C. General Information:

1. CSS0428P-xxx_, "CSS0428P" = P/N, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_": N = $\pm 30\%$, M = $\pm 20\%$, L = $\pm 15\%$.
3. Operating temperature range: -30°C to +100°C (Including self-generated heat).
4. Storage temperature: -40°C to +85°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 1.2 μ H (2.56A) to 180.0 μ H (0.22A).
9. MSL: Level 1.



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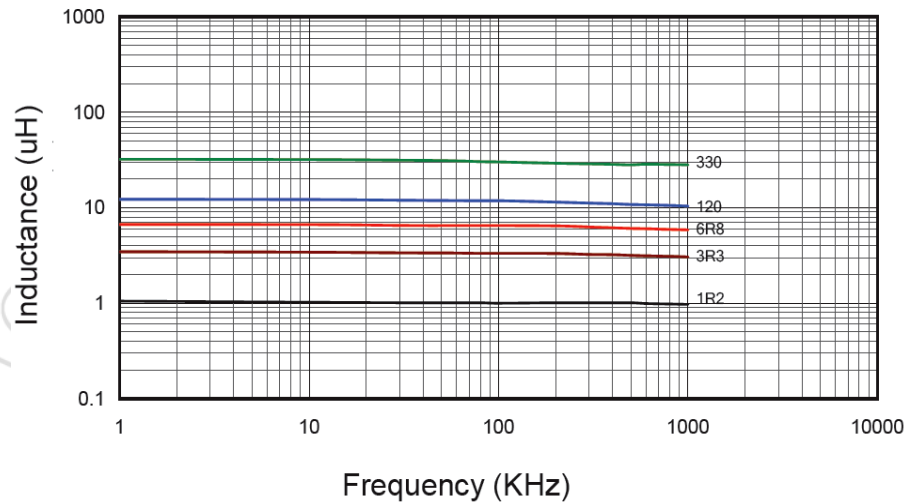
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D. Applications:

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.

E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

