



CSS0638P Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

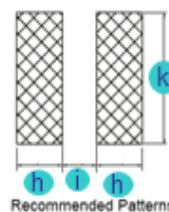
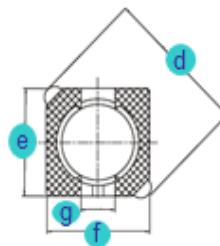
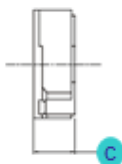
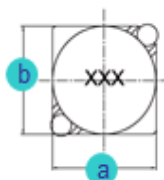
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance (μ H)	Test Freq. (KHz)	DCR Max. (m Ω)	Rated Current (A)
CSS0638P-3R3N	3R3	3.3	10	20	3.50
CSS0638P-5R0N	5R0	5.0	10	24	2.90
CSS0638P-6R2N	6R2	6.2	10	27	2.50
CSS0638P-7R4N	7R4	7.4	10	31	2.30
CSS0638P-8R7N	8R7	8.7	10	34	2.20
CSS0638P-100N	100	10	10	38	2.00
CSS0638P-120N	120	12	10	53	1.70
CSS0638P-150N	150	15	10	57	1.60
CSS0638P-180N	180	18	10	92	1.50
CSS0638P-220N	220	22	10	96	1.30
CSS0638P-270N	270	27	10	109	1.20
CSS0638P-330N	330	33	10	124	1.10
CSS0638P-390N	390	39	10	138	1.00
CSS0638P-470N	470	47	10	155	0.95
CSS0638P-560N	560	56	10	202	0.85
CSS0638P-680N	680	68	10	234	0.75
CSS0638P-820N	820	82	10	324	0.70
CSS0638P-101N	101	100	10	358	0.65

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	k
CSS0638P	6.7 (0.264)	6.7 (0.264)	4.0 (0.157)	9.5 (0.374)	6.5 (0.256)	6.5 (0.256)	2.0 (0.079)	2.65 (0.104)	2.0 (0.079)	7.3 (0.287)
Tol.	± 0.3 (0.012)	± 0.3 (0.012)	Max.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.



C. General Information:

1. CSS0638P-xxx_, "CSS0638P" = 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 3.3 μ H (3.50A) to 100.0 μ H (0.65A).
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.

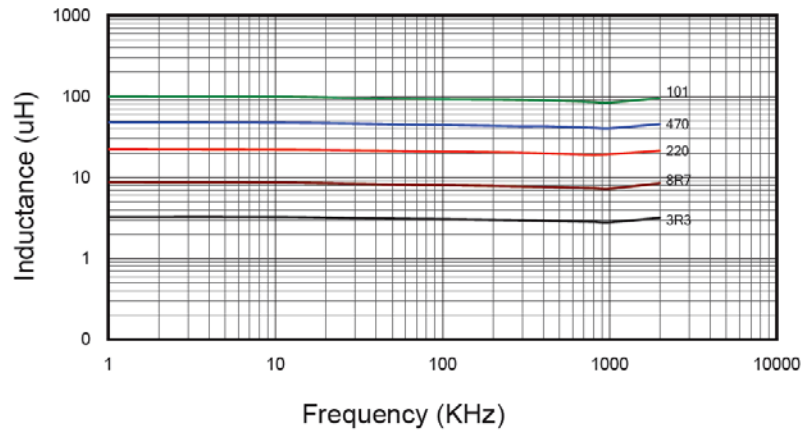


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E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

