



CSS0518P Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

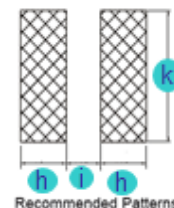
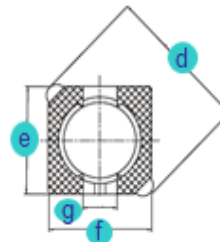
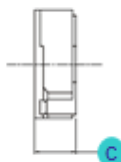
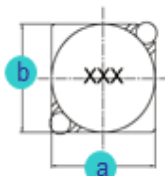
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance (μ H)	Test Freq. (KHz)	DCR Max. (m Ω)	Rated Current (A)
CSS0518P-4R1N	4R1	4.1	10	57	1.95
CSS0518P-5R4N	5R4	5.4	10	76	1.60
CSS0518P-6R2N	6R2	6.2	10	96	1.40
CSS0518P-8R9N	8R9	8.9	10	116	1.25
CSS0518P-100N	100	10	10	124	1.20
CSS0518P-120N	120	12	10	153	1.10
CSS0518P-150N	150	15	10	196	0.97
CSS0518P-180N	180	18	10	210	0.85
CSS0518P-220N	220	22	10	290	0.80
CSS0518P-270N	270	27	10	330	0.75
CSS0518P-330N	330	33	10	385	0.65
CSS0518P-390N	390	39	10	520	0.57
CSS0518P-470N	470	47	10	595	0.54
CSS0518P-560N	560	56	10	665	0.50
CSS0518P-680N	680	68	10	840	0.43
CSS0518P-820N	820	82	10	978	0.41
CSS0518P-101N	101	100	10	1200	0.36

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	k
CSS0518P	5.7 (0.224)	5.7 (0.224)	2.0 (0.049)	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. CSS0518P-xxx_, "CSS0518P" = 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 4.1 μH (1.95A) to 100.0 μH (0.36A).
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.

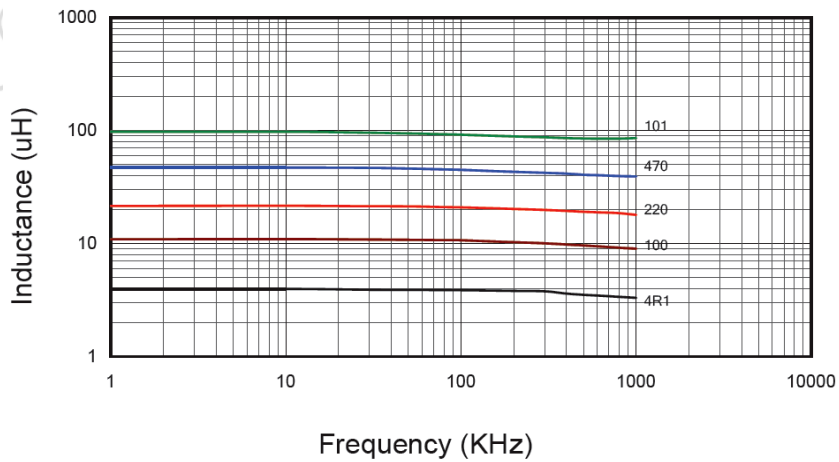


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E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

