



CSN084F Series SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)

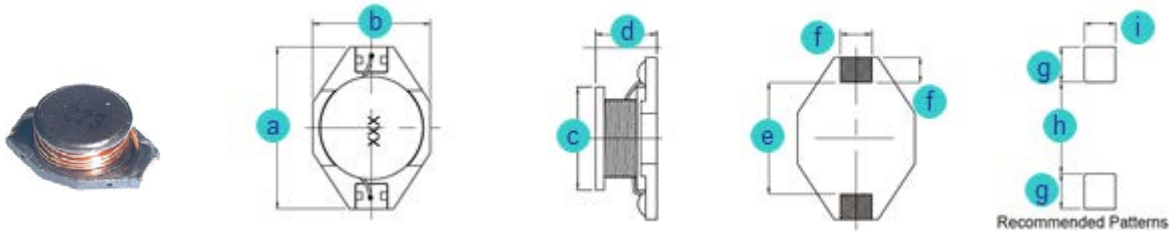
Rev. A

A. Electrical Specifications:

PART NO.	Marking	Inductance (μH)	Tolerance	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)	I sat (A)
CSN084F-1R0M	1R0	1.0	M	100	0.009	6.80	9.00
CSN084F-1R5M	1R5	1.5	M	100	0.010	6.40	8.00
CSN084F-2R2M	2R2	2.2	M	100	0.012	6.10	7.00
CSN084F-3R3M	3R3	3.3	M	100	0.015	5.40	6.40
CSN084F-4R7M	4R7	4.7	M	100	0.018	4.80	5.40
CSN084F-6R8M	6R8	6.8	M	100	0.027	4.40	4.60
CSN084F-100M	100	10	M	100	0.038	3.90	3.80
CSN084F-150M	150	15	M	100	0.046	3.10	3.00
CSN084F-220M	220	22	M	100	0.085	2.70	2.60
CSN084F-330M	330	33	M	100	0.100	2.10	2.00
CSN084F-470M	470	47	M	100	0.140	1.80	1.60
CSN084F-680M	680	68	M	100	0.200	1.50	1.40
CSN084F-101M	101	100	M	100	0.280	1.30	1.20
CSN084F-151M	151	150	M	100	0.400	1.00	1.00
CSN084F-221M	221	220	M	100	0.610	0.80	0.80
CSN084F-331M	331	330	M	100	1.020	0.60	0.60
CSN084F-471M	471	470	M	100	1.270	0.50	0.50
CSN084F-681M	681	680	M	100	2.020	0.40	0.40
CSN084F-102M	102	1000	M	100	3.000	0.30	0.30

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i
CSN084F	12.95 (0.510)	9.4 (0.370)	Ø8.5 (0.335)	5.21 (0.205)	7.6 (0.299)	2.5 (0.098)	2.92 (0.115)	7.37 (0.290)	2.79 (0.110)
Tol.	Max.	Max.	Typ.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.



C. General Information:

1. CSN084F-xxx_, "CSN084F" = P/N, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_": M = $\pm 20\%$, L = $\pm 15\%$, K = $\pm 10\%$.
3. Operating temperature range: -30°C to $+100^{\circ}\text{C}$ (Including self-heating).
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 10% of initial value at rated current, temperature rise $\Delta t < 40^{\circ}\text{C}$.
8. Inductance and Current range: From 1.0 μH (6.80A) to 1000.0 μH (0.30A).
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

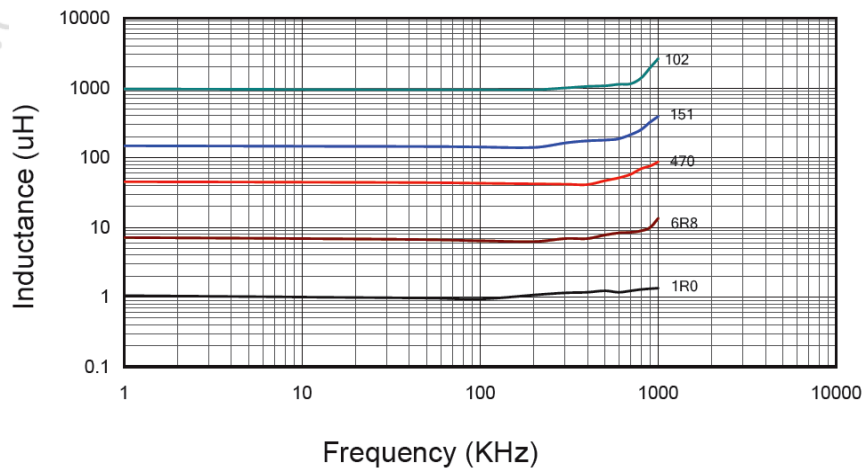


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E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

