



CSM0840D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

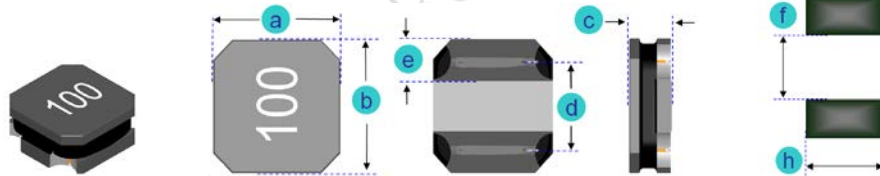
Rev. A

A. Electrical Specifications:

P/N	L (uH)	Tol.	Mark	Test Freq. (KHz)	SRF Min. (MHz)	DCR Max. (mΩ)	I sat. Max. (A)	I rms Max. (A)
CSM0840D-R90N	0.9	± 30%	R90	100	85	7.80	12.0	8.00
CSM0840D-1R4N	1.4	± 30%	1R4	100	63	9.10	10.8	7.80
CSM0840D-2R0N	2.0	± 30%	2R0	100	50	11.7	9.00	7.40
CSM0840D-2R2N	2.2	± 30%	2R2	100	41	15.6	7.50	6.00
CSM0840D-3R3N	3.3	± 30%	3R3	100	27	19.5	7.00	5.10
CSM0840D-3R6N	3.6	± 30%	3R6	100	34	19.5	6.00	4.90
CSM0840D-4R7N	4.7	± 30%	4R7	100	30	23.4	5.50	4.60
CSM0840D-6R8N	6.8	± 30%	6R8	100	24	31.2	5.00	4.40
CSM0840D-100M	10	± 20%	100	100	22	37.7	4.00	3.80
CSM0840D-150M	15	± 20%	150	100	16	61.1	3.00	2.80
CSM0840D-220M	22	± 20%	220	100	13	89.7	2.80	2.60
CSM0840D-330M	33	± 20%	330	100	12	126.1	2.00	1.80
CSM0840D-470M	47	± 20%	470	100	8	176.8	1.90	1.75
CSM0840D-680M	68	± 20%	680	100	7	254.8	1.70	1.45
CSM0840D-101M	100	± 20%	101	100	6	377.0	1.10	1.10

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h
CSM0840D	8.0 (0.315)	8.0 (0.315)	4.2 (0.165)	5.6 (0.220)	2.3 (0.091)	3.4 (0.134)	2.2 (0.087)	7.5 (0.295)
Tol.	±0.2 (0.008)	±0.2 (0.008)	Max.	±0.2 (0.008)	Typ.	Typ.	Typ.	Typ.



C. General Information:

1. CSM0840D-xxx_, "CSM0840D" = P/N, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_": M: ± 20%, N: ± 30%
3. Test Freq.: 100KHz, 1V
4. Magnetically shielded
5. High saturation current
6. I sat: based on inductance decrease 30% (at 20 °C ambient).
7. I rms: based on temperature increase 40°C (at 20 °C ambient).
8. Storage temperature: -40°C to +85°C.
9. Operating temperature range: -25°C to +120°C (Including self-heating).
10. Inductance measured: CH-3302, HP4286A or equivalent
11. DCR measured: CHROMA 16502 or equivalent.
12. Inductance and Current Range: From 0.9 uH (8.0 A) to 100 uH (1.1 A)
13. 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.

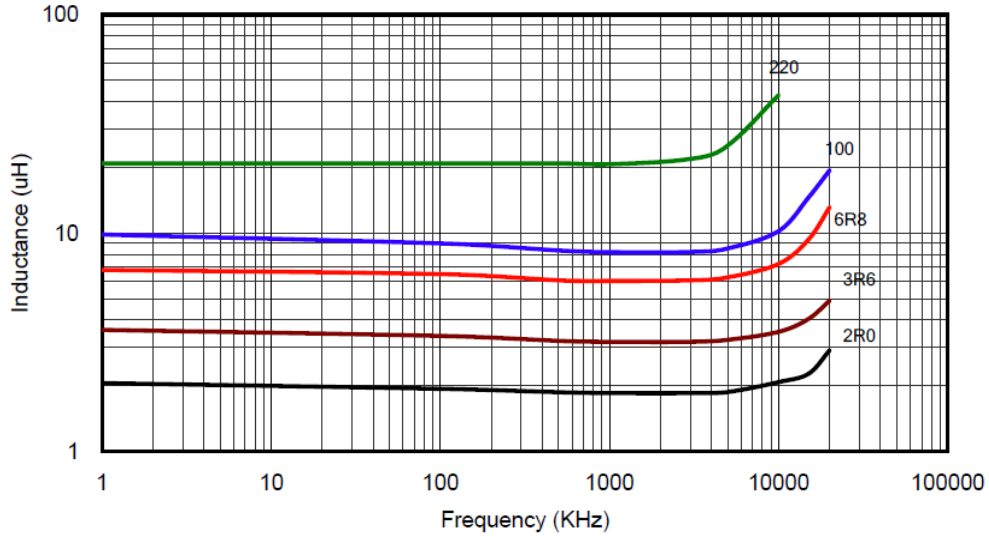


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E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

