



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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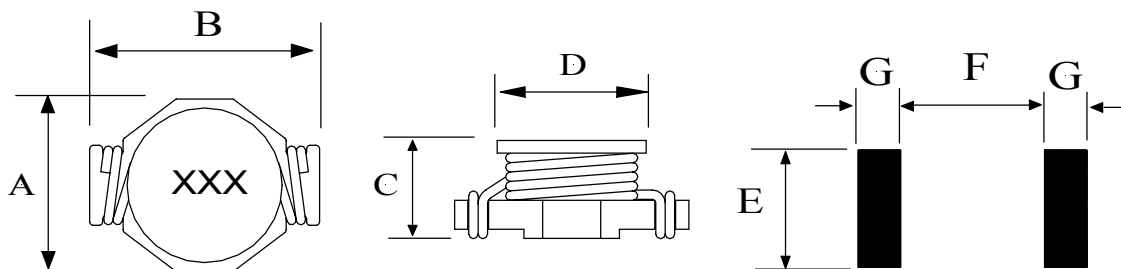
SMD Power Choke—CSN0810S series

A. Electrical specifications:

Part No.	Mark	L (uH)	Test Freq.	DCR (max) Ω	I rms. (A)	I sat. (A)
CSN0810S-100M	103	10	100 KHz	0.04	3.50	8.00
CSN0810S-150M	153	15	100 KHz	0.05	3.00	7.00
CSN0810S-220M	223	22	100 KHz	0.066	2.50	5.50
CSN0810S-330M	333	33	100 KHz	0.08	2.00	4.00
CSN0810S-470M	473	47	100 KHz	0.11	1.60	3.80
CSN0810S-680M	683	68	100 KHz	0.17	1.20	3.00
CSN0810S-101M	104	100	100 KHz	0.22	1.20	2.50
CSN0810S-151M	154	150	100 KHz	0.34	0.90	2.00
CSN0810S-221M	224	220	100 KHz	0.44	0.70	1.60
CSN0810S-331M	334	330	100 KHz	0.70	0.60	1.20
CSN0810S-471M	474	470	100 KHz	0.95	0.30	1.00
CSN0810S-681M	684	680	100 KHz	1.20	0.20	1.00
CSN0810S-102M	105	1000	100 KHz	2.00	0.10	0.80

B. Mechanical dimensions: (Unit: mm)

SERIES	A	B(MAX)	C(MAX)	D(MAX)	E	F	G	TYPE
CSN0810S	9.7±0.3	12.95	11.5	9.5	6.0	7.37	2.92	1S



Land Pattern

Type 1S: Unshielded

C. Features:

- Tolerance: M: $\pm 20\%$, L: $\pm 15\%$, K: $\pm 10\%$.
- Operating temperature: -25°C TO $+85^{\circ}\text{C}$.
- Inductance measured on the HP4284A LCR meter & DCR measured on the 502BC milli-ohm meter.
- Inductance drops no more than 10% at rated current or temperature rise $\Delta t < 20^{\circ}\text{C}$.
- Inductance and Current range:
CSN0810S-series: From 10uH(3.50A) to 1000uH(0.10A)

Note: *RoHS compliant; for the RoHS parts, we add “-LFR” at the end of the P/N.*



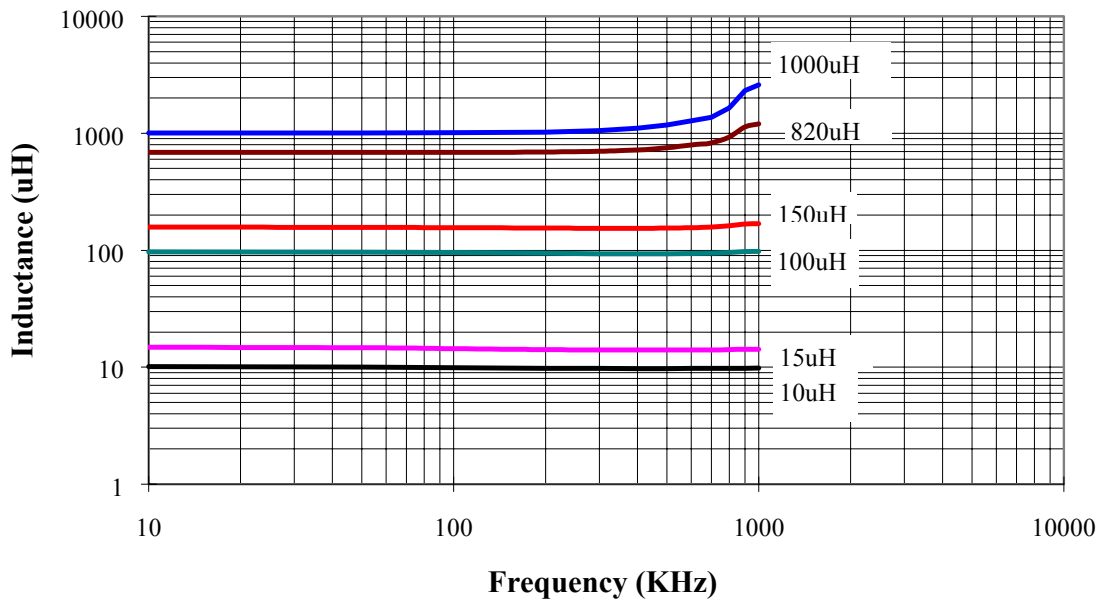
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D. Characteristic curve:

1. L vs. Frequency:



2. Typical L vs. DC Current:

