



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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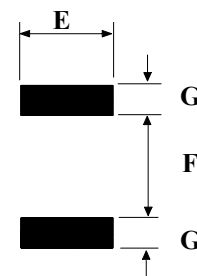
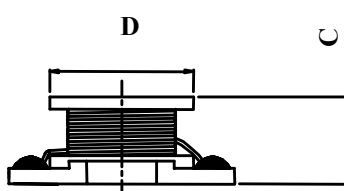
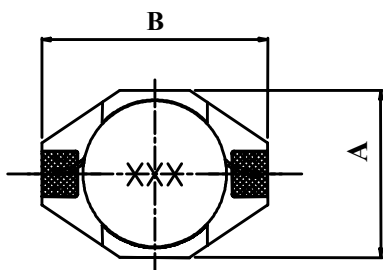
SMD Power Choke—CSN042C

A. Electrical specifications:

Part No.	Mark	L (uH)	Test Freq.	DCR (max.) Ω	I rms. (A)	I sat. (A)
CSN042C-1R0M	102	1.0	100 KHz	0.05	2.90	2.90
CSN042C-1R5M	152	1.5	100 KHz	0.05	2.80	2.60
CSN042C-2R2M	222	2.2	100 KHz	0.07	2.40	2.30
CSN042C-2R7M	272	2.7	100 KHz	0.07	2.40	2.30
CSN042C-3R3M	332	3.3	100 KHz	0.08	2.00	2.00
CSN042C-4R7M	472	4.7	100 KHz	0.09	1.50	1.50
CSN042C-6R8M	682	6.8	100 KHz	0.13	1.40	1.20
CSN042C-100M	103	10	100 KHz	0.16	1.10	1.10
CSN042C-150M	153	15	100 KHz	0.23	1.20	0.90
CSN042C-220M	223	22	100 KHz	0.37	0.80	0.70
CSN042C-330M	333	33	100 KHz	0.51	0.60	0.58
CSN042C-470M	473	47	100 KHz	0.64	0.50	0.50
CSN042C-680M	683	68	100 KHz	0.86	0.40	0.40
CSN042C-101M	104	100	100 KHz	1.27	0.30	0.31
CSN042C-151M	154	150	100 KHz	2.00	0.25	0.27
CSN042C-221M	224	220	100 KHz	3.11	0.20	0.22
CSN042C-331M	334	330	100 KHz	3.80	0.16	0.18
CSN042C-471M	474	470	100 KHz	5.06	0.15	0.16
CSN042C-681M	684	680	100 KHz	9.20	0.12	0.14
CSN042C-821M	824	820	100 KHz	12.5	0.11	0.13
CSN042C-102M	105	1000	100 KHz	13.80	0.07	0.10

B. Mechanical dimensions: (Unit: mm)

SERIES	A (max.)	B (max.)	C (max.)	D	E	F	G
CSN042C	4.45	6.60	2.92	4.0	3.56	4.06	1.40



Land Pattern

C. Feature:

1. Tolerance: M: $\pm 20\%$, L: $\pm 15\%$, K: $\pm 10\%$.
2. Operating temperature: -25°C TO $+85^{\circ}\text{C}$.
3. Electrical specifications at $+25^{\circ}\text{C}$.
4. Inductance measured on the HP4284A LCR meter.
5. DCR measured on the 502BC milli-ohm meter.
6. Inductance drops no more than 10% at rated I sat.
7. Temperature rises $\Delta t < 15^{\circ}\text{C}$ (Typical) at rated I rms.
8. Enclosed in a flat top ceramic case.

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



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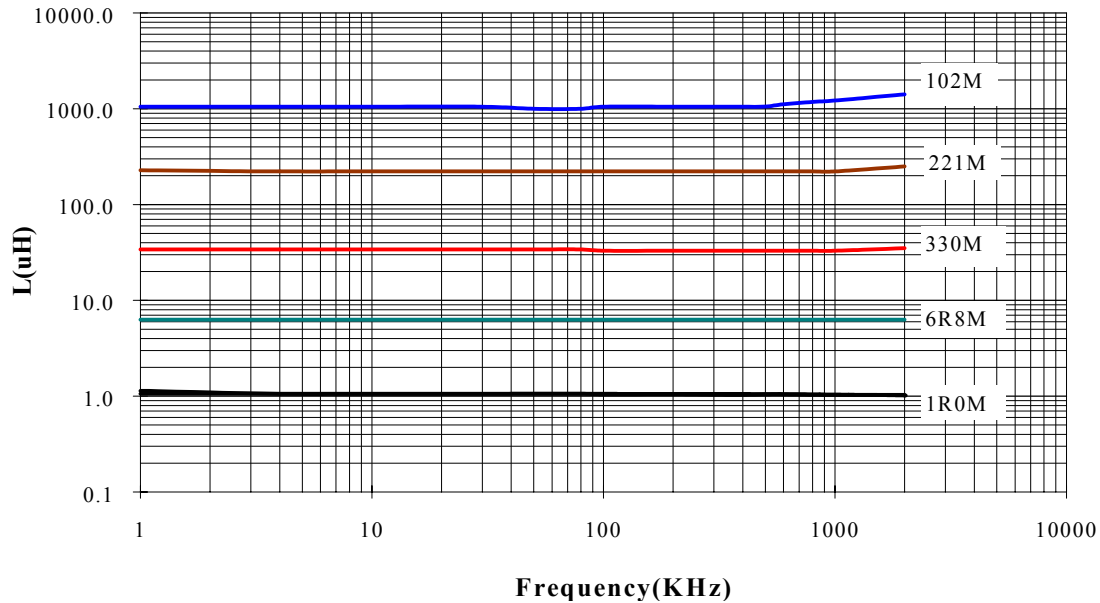
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SMD Power Choke—CSN042C series

D. Characteristic curve:

1. L vs. Frequency:



2. Typical L vs. DC Current:

