



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065
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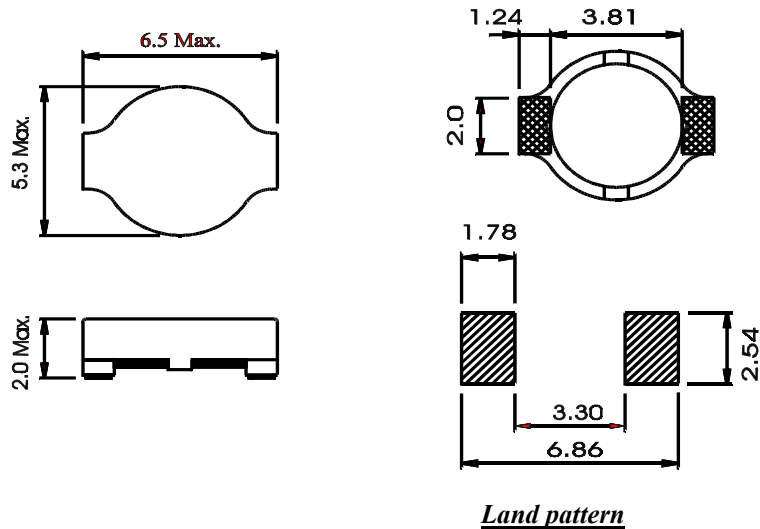
SMD Power Choke—CSC042A series

A. Electrical specifications:

Part No.	Mark	L (uH)	Test Freq.	DCR max. (Ω)	SRF (MHz)	I rms. (A)	I sat. (A)
CSC042A-102M	102	1.0	100KHz	0.11	550	3.0	2.0
CSC042A-152M	152	1.5	100KHz	0.12	505	2.4	1.8
CSC042A-222M	222	2.2	100KHz	0.16	360	1.8	1.6
CSC042A-332M	332	3.3	100KHz	0.19	230	1.6	1.5
CSC042A-472M	472	4.7	100KHz	0.22	165	1.2	1.5
CSC042A-682M	682	6.8	100KHz	0.33	130	1.1	1.3
CSC042A-103M	103	10	100KHz	0.44	80	0.8	1.1
CSC042A-153M	153	15	100KHz	0.70	60	0.7	0.9
CSC042A-223M	223	22	100KHz	0.80	25	0.6	0.8

B. Mechanical dimensions: (UNIT: mm)

Series	A (max.)	B (max.)	C (max.)	D	E	F	G
CSC042A	5.3	6.5	2.0	6.86	2.54	3.30	1.78



C. Features:

1. Tolerance: M: $\pm 20\%$.
2. Electrical specifications at $+25^\circ\text{C}$.
3. Operating temperature: -40°C TO $+85^\circ\text{C}$.
4. Inductance measured using the HP4284A LCR meter.
5. DCR measured using the 502BC milli-ohm meter.
6. Inductance drops no more than 10% (Typ.) at rated I sat.
7. Temperature rises $\Delta t < 40^\circ\text{C}$ (Typical) at rated I rms.
8. The coil and core is enclosed in a flattop ceramic case.

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



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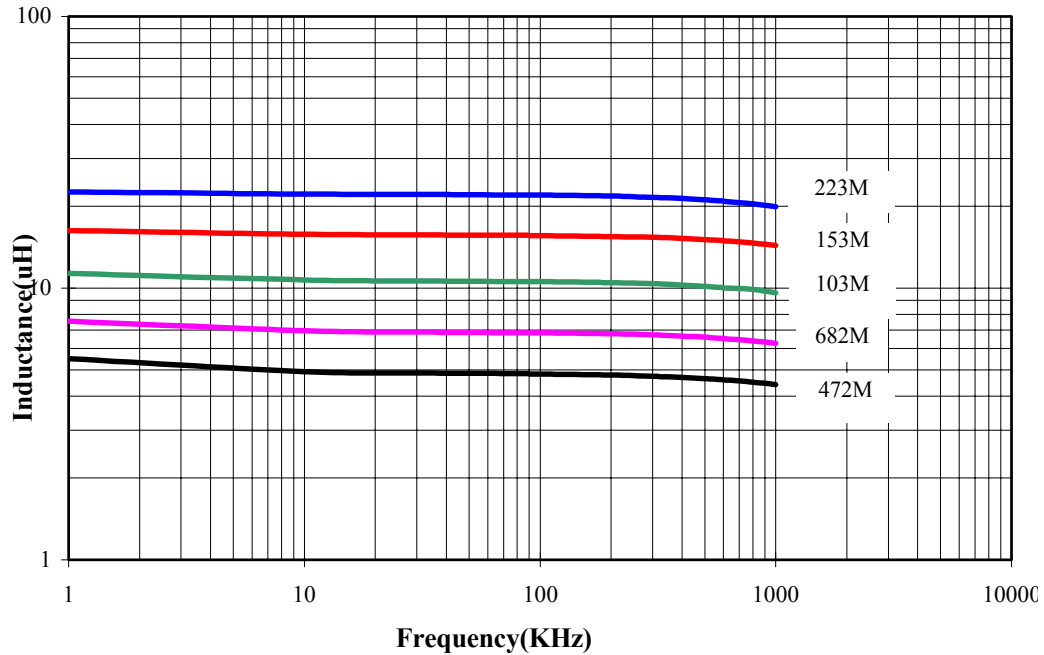
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E. Characteristic curve:

1. L vs. Frequency:



2. Typical Inductance vs. Current:

