Frontier Electronics Corp.

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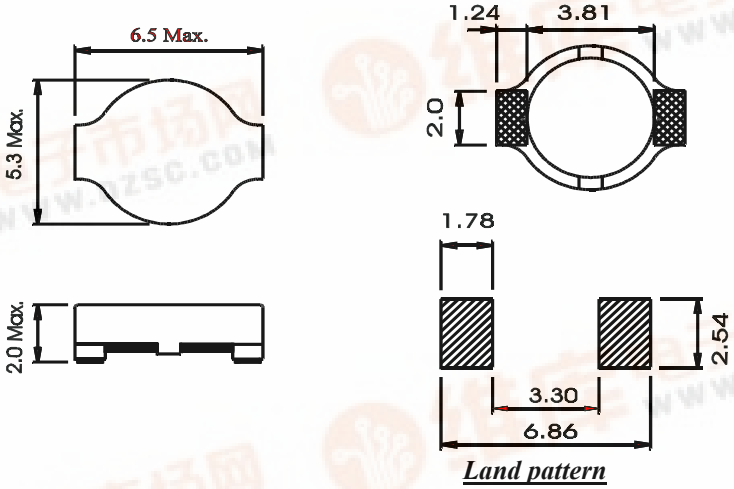
SMD Power Choke—CSN042A series

A. Electrical specifications:

Part No.	Mark	L (uH)	Test Freq.	DCR (max.) Ω	SRF (MHz)	I rms. (A)	I sat. (A)
CSN042A-102M	1R0	1.0	100KHz	0.04	230	2.3	2.5
CSN042A-152M	1R5	1.5	100KHz	0.06	180	2.1	2.2
CSN042A-222M	2R2	2.2	100KHz	0.07	140	1.7	1.8
CSN042A-332M	3R3	3.3	100KHz	0.10	110	1.3	1.4
CSN042A-472M	4R7	4.7	100KHz	0.12	100	1.1	1.2
CSN042A-682M	6R8	6.8	100KHz	0.19	80	1.0	1.1
CSN042A-103M	100	10	100KHz	0.26	60	0.9	1.0
CSN042A-153M	150	15	100KHz	0.40	45	0.7	0.8
CSN042A-223M	220	22	100KHz	0.54	35	0.5	0.6
CSN042A-333M	330	33	100KHz	0.74	30	0.45	0.5
CSN042A-473M	470	47	100KHz	1.10	22	0.40	0.45
CSN042A-683M	680	68	100KHz	1.60	20	0.35	0.35
CSN042A-104M	101	100	100KHz	2.30	15	0.30	0.30
CSN042A-154M	151	150	100KHz	3.20	10	0.25	0.25
CSN042A-224M	221	220	100KHz	5.70	9	0.18	0.20
CSN042A-334M	331	330	100KHz	8.20	8	0.16	0.16
CSN042A-474M	471	470	100KHz	10.8	7	0.12	0.14
CSN042A-684M	681	680	100KHz	17.2	5	0.10	0.12
CSN042A-105M	102	1000	100KHz	22.6	4	0.08	0.08

B. Mechanical dimensions: (UNIT: mm)

Series	A (max.)	B (max.)	C (max.)	D	E	F	G
CSN042A	5.3	6.5	2.0	6.86	2.54	3.30	1.78



Land pattern

C. Features:

1. Tolerance: M: ± 20%, L: ± 15%, K: ± 10%.
2. Electrical specifications at +25ºC.
3. Operating temperature: -25ºC TO +85ºC.
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 Δ t < 40ºC (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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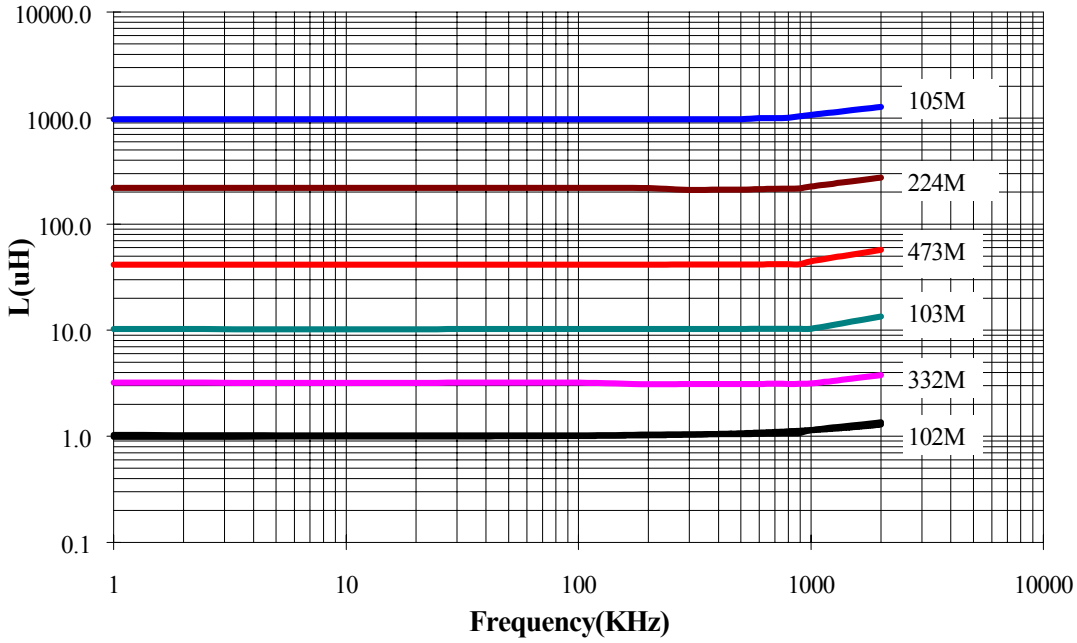
E. Characteristic curve:

1. L vs. Frequency:



2. Typical Inductance vs. Current: