



# Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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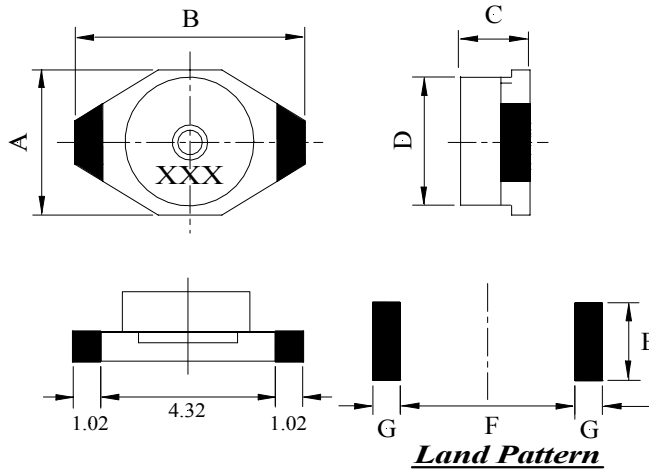
## SMD Power Choke—CST042C

### A. Electrical specifications:

Part No.	Mark	L (uH) @ 100KHz, 0A DC	DCR $\Omega$ (Max.)	L (uH) @ Rated I rms.	Rated I rms.	Max. Energy Storage (@Joules)	Switching Freq. (max.)
CST042C-1R0M	1R0	1.00	0.065	0.60	2.00	1.8	1MHz
CST042C-1R5M	1R5	1.50	0.070	0.80	1.90	1.8	1MHz
CST042C-2R2M	2R2	2.20	0.075	0.90	1.50	1.8	1MHz
CST042C-3R3M	3R3	3.30	0.080	1.50	1.20	1.4	1MHz
CST042C-4R7M	4R7	4.70	0.085	2.00	1.20	1.6	1MHz
CST042C-6R8M	6R8	6.80	0.090	3.00	1.00	1.9	1MHz
CST042C-100M	100	10.0	0.125	5.00	0.70	1.2	1MHz
CST042C-150M	150	15.0	0.135	6.00	0.60	1.1	1MHz
CST042C-220M	220	22.0	0.160	10	0.50	1.2	1MHz
CST042C-330M	330	33.0	0.275	12	0.45	1.5	1MHz
CST042C-470M	470	47.0	0.300	20	0.34	1.3	1MHz
CST042C-680M	680	68.0	0.575	30	0.29	1.4	1MHz
CST042C-101M	101	100	1.100	40	0.24	1.5	1MHz
CST042C-151M	151	150	1.400	60	0.20	1.4	500KHz
CST042C-221M	221	220	2.250	90	0.17	1.6	500KHz
CST042C-331M	331	330	2.900	100	0.16	1.4	500KHz
CST042C-471M	471	470	3.600	150	0.14	1.5	500KHz
CST042C-681M	681	680	4.550	200	0.12	1.4	500KHz
CST042C-102M	102	1000	8.100	400	0.08	1.4	500KHz

### B. Mechanical dimensions: (Unit: mm):

SERIES	A (max.)	B (max.)	C (max.)	D(Ref.)	E	F	G
CST042C	4.45	6.60	2.92	4.06	3.56	4.06	1.40



### C. Features:

1. Tolerance: M:  $\pm 20\%$ .
2. Operating temperature:  $-25^{\circ}\text{C}$  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. Temperature rises  $\Delta t < 15^{\circ}\text{C}$  (Typical) at rated I rms.
7. Average maximum allowable current: CST042C series are designed for current spikes as high as 2 times the current rated.
8. Inductance range: CST 042C series from 1.0uH(2.00A) to 1000uH(0.08A).

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



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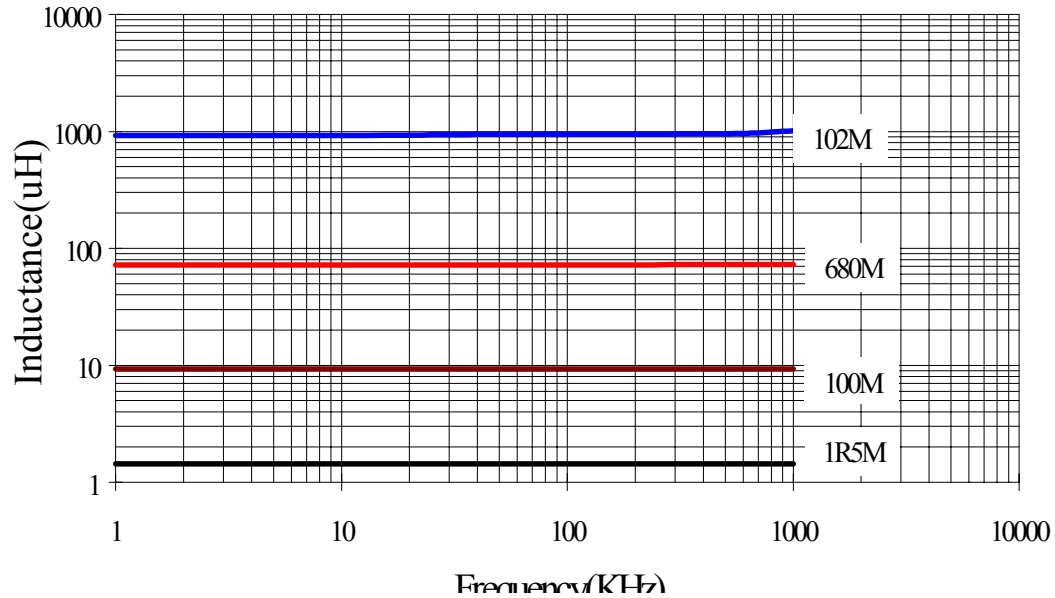
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## SMD Power Choke—CSN042A series

### E. Characteristic curve:

#### 1. L vs. Frequency:



#### 2. Typical Inductance vs. Current:

