



# Frontier Electronics Corp.

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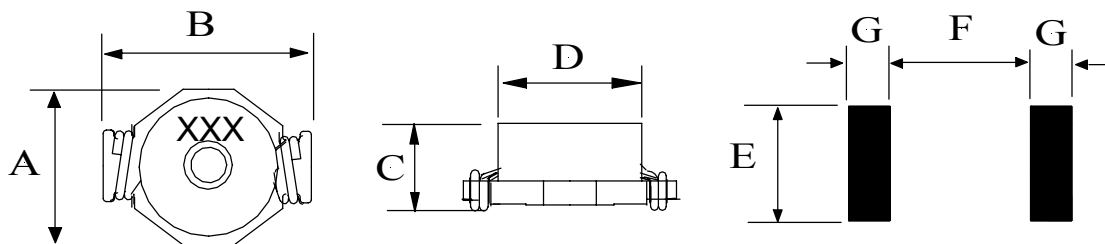
## SMD Power Choke—CST084S series

### A. Electrical specifications:

Part No.	Mark	L (uH) @ 100KHz, 0ADC	DCR $\Omega$ (max)	L (uH) @ Rated I rms.	I rms. (A)	SRF (MHz) Min.	Max. Energy Storage ( @ Joules)	Max. Switching Frequency
CST084S-1R0M	1R0	1.0 $\pm$ 20%	0.025	0.50	5.00	60	9.0	1MHz
CST084S-1R5M	1R5	1.5 $\pm$ 20%	0.030	0.70	5.00	55	12	1MHz
CST084S-2R2M	2R2	2.2 $\pm$ 20%	0.035	1.00	5.00	55	15	1MHz
CST084S-3R3M	3R3	3.3 $\pm$ 20%	0.040	1.50	5.00	50	16	1MHz
CST084S-4R7M	4R7	4.7 $\pm$ 20%	0.045	2.0	3.00	45	10	1MHz
CST084S-6R8M	6R8	6.8 $\pm$ 20%	0.050	4.0	2.50	40	14	1MHz
CST084S-100M	100	10 $\pm$ 20%	0.055	5.0	2.00	35	11	1MHz
CST084S-150M	150	15 $\pm$ 20%	0.060	6.0	1.80	25	12	1MHz
CST084S-220M	220	22 $\pm$ 20%	0.084	10	1.50	22	11	1MHz
CST084S-330M	330	33 $\pm$ 20%	0.090	12	1.30	18	13	1MHz
CST084S-470M	470	47 $\pm$ 20%	0.110	27	1.00	16	13	1MHz
CST084S-680M	680	68 $\pm$ 20%	0.150	40	0.90	12	17	1MHz
CST084S-101M	101	100 $\pm$ 20%	0.290	50	0.80	9	15	1MHz
CST084S-151M	151	150 $\pm$ 20%	0.360	80	0.60	8	15	500KHz
CST084S-221M	221	220 $\pm$ 20%	0.390	90	0.50	6	10	500KHz
CST084S-331M	331	330 $\pm$ 20%	0.730	150	0.40	5	13	500KHz
CST084S-471M	471	470 $\pm$ 20%	0.880	200	0.35	4	13	500KHz
CST084S-681M	681	680 $\pm$ 20%	1.150	300	0.30	3	13	500KHz
CST084S-102M	102	1000 $\pm$ 20%	1.450	420	0.25	2.5	13	500KHz

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

SERIES	A	B(MAX)	C(MAX)	D(MAX)	E	F	G	TYPE
CST084S	9.7 $\pm$ 0.3	12.95	5.30	8.60	6.0	7.37	2.92	3S



Type 3S: Shielded

### C. Features:

- Operating temperature: -25°C TO +85°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.
- Average maximum allowable current: CST084S series are designed for current spikes as high as 2 times the current rated.
- Inductance and Current range:  
CST084S-series: From 1.0uH(5A) to 1,000uH(0.25A)

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