



# Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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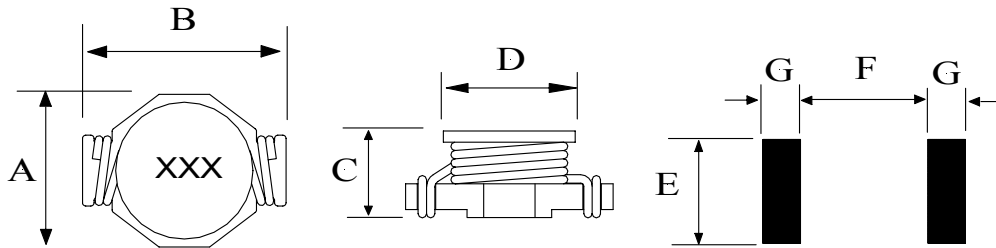
## SMD Power Choke—CSN136S series

### A. Electrical specifications:

Part No.	Mark	L (uH)	Test Freq.	DCR (max) $\Omega$	I rms. (A)	I sat. (A)
CSN136S-1R0M	102	1.0	100 KHz	0.009	8.60	20.0
CSN136S-2R2M	222	2.2	100 KHz	0.014	7.10	16.0
CSN136S-3R3M	332	3.3	100 KHz	0.018	6.20	14.0
CSN136S-5R6M	562	5.6	100 KHz	0.020	5.30	12.0
CSN136S-100M	103	10	100 KHz	0.031	4.30	10.0
CSN136S-150M	153	15	100 KHz	0.036	4.00	8.0
CSN136S-220M	223	22	100 KHz	0.047	3.50	7.0
CSN136S-330M	333	33	100 KHz	0.066	3.00	5.5
CSN136S-470M	473	47	100 KHz	0.086	2.60	4.5
CSN136S-680M	683	68	100 KHz	0.130	2.30	3.5
CSN136S-101M	104	100	100 KHz	0.190	1.80	3.0
CSN136S-151M	154	150	100 KHz	0.250	1.50	2.6
CSN136S-221M	224	220	100 KHz	0.380	1.20	2.4
CSN136S-331M	334	330	100 KHz	0.560	1.00	1.9
CSN136S-471M	474	470	100 KHz	0.850	0.82	1.4
CSN136S-681M	684	680	100 KHz	1.100	0.72	1.2
CSN136S-102M	105	1000	100 KHz	1.800	0.56	1.0

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

SERIES	A (Max.)	B (MAX)	C (MAX)	D (Typ.)	E	F	G	TYPE
CSN136S	15.24	18.54	7.11	12.7	6.0	12.45	2.92	1S



Land Pattern

Type 1S: Unshielded

### C. Features:

- Tolerance: M:  $\pm 20\%$ , L:  $\pm 15\%$ , K:  $\pm 10\%$ .
- Operating temperature:  $-25^{\circ}\text{C}$  TO  $+85^{\circ}\text{C}$ .
- Inductance measured on the HP4284A LCR meter & DCR measured on the 502BC milli-ohm meter.
- Inductance drops no more than 10% at rated current or temperature rise  $\Delta t < 40^{\circ}\text{C}$ .
- Inductance and Current range:  
CSN136S-series: From 1.0uH(8.60A) to 1000uH(0.56A)

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



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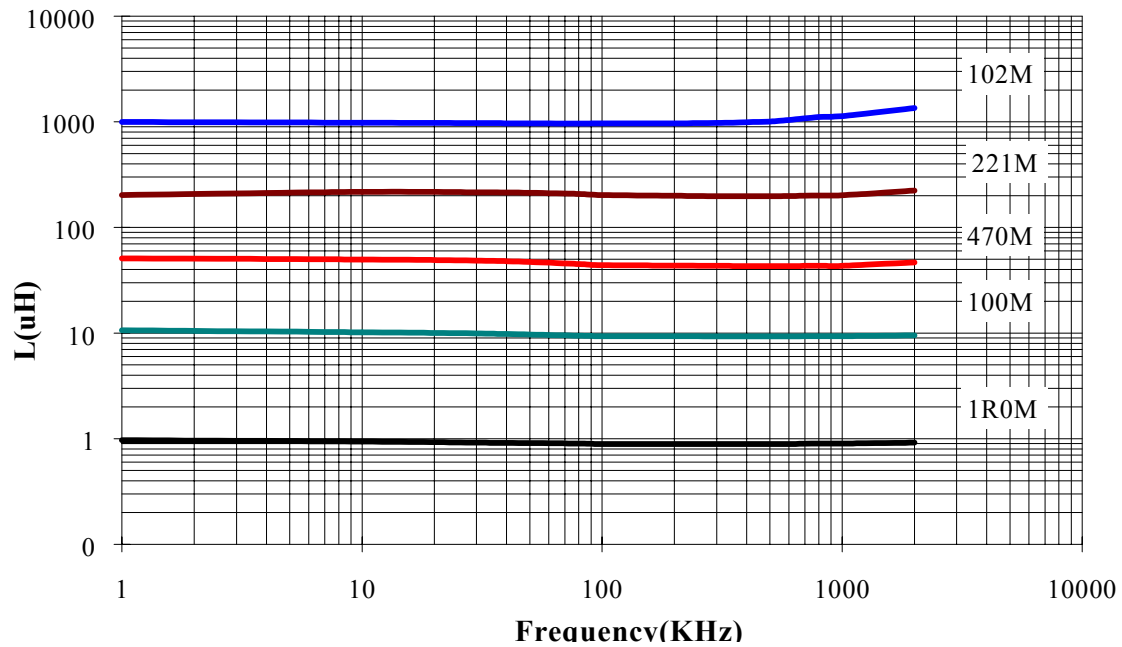
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### D. Characteristic curve:

#### 1. L vs. Frequency:



#### 2. Typical L vs. DC Current:

