



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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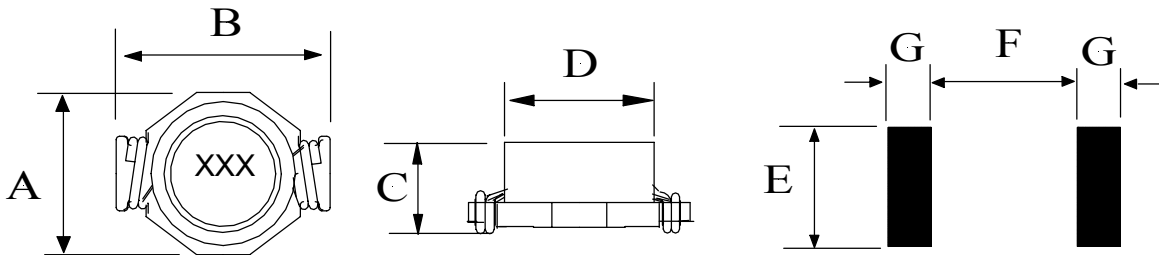
SMD Power Choke—CSS136S series

A. Electronics specifications:

Part No.	Mark	L (uH)	Test Freq.	DCR (max) Ω	I rms. (A)	I sat. (A)
CSS136S-100M	103	10	100 KHz	0.040	3.90	8.00
CSS136S-150M	153	15	100 KHz	0.048	3.40	7.00
CSS136S-220M	223	22	100 KHz	0.059	3.10	6.00
CSS136S-330M	333	33	100 KHz	0.075	2.80	5.00
CSS136S-470M	473	47	100 KHz	0.097	2.40	4.00
CSS136S-680M	683	68	100 KHz	0.138	2.00	3.00
CSS136S-101M	104	100	100 KHz	0.207	1.70	2.40
CSS136S-151M	154	150	100 KHz	0.293	1.30	2.10
CSS136S-221M	224	220	100 KHz	0.470	1.10	1.90
CSS136S-331M	334	330	100 KHz	0.780	0.86	1.10
CSS136S-471M	474	470	100 KHz	1.080	0.73	1.10
CSS136S-681M	684	680	100 KHz	1.400	0.64	0.96
CSS136S-102M	105	1000	100 KHz	2.010	0.53	0.80

B. DIMENSIONS: (Unit: mm)

SERIES	A (Max.)	B(MAX)	C(MAX)	D(MAX)	E	F	G	TYPE
CSS136S	15.24	18.54	7.62	12.7	6.0	12.45	2.92	2S



Type 2S: Shielded

Land Pattern

C. Features:

- Tolerance: M: $\pm 20\%$, L: $\pm 15\%$, K: $\pm 10\%$.
- Operating temperature: -25°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:
CSS136S-series: From 10uH(3.9A) to 1000uH(0.53A)

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



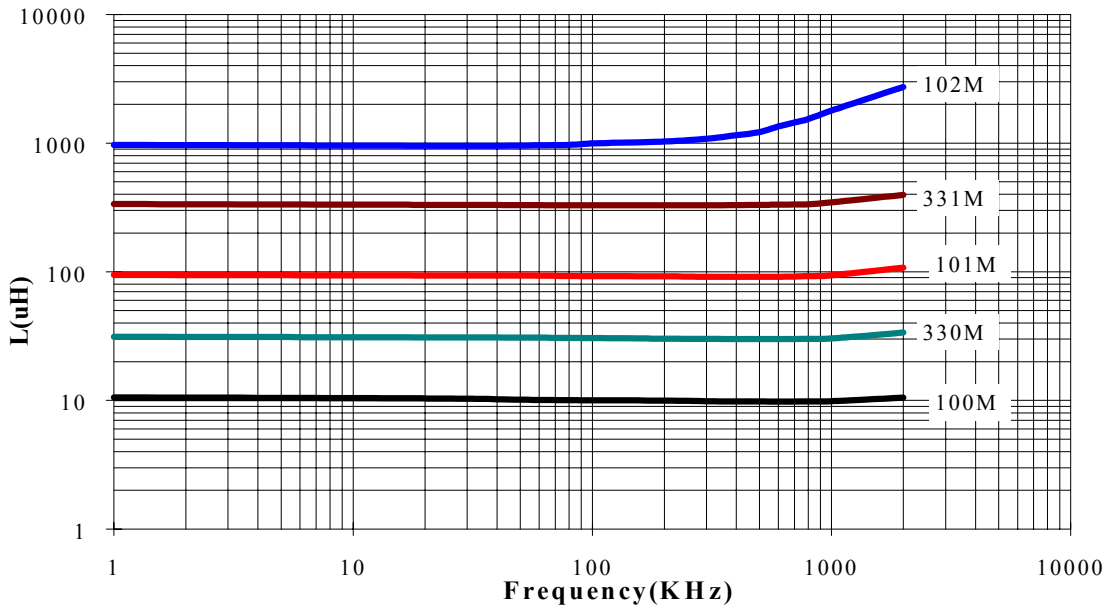
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D. Characteristic curve:

1. L vs. Frequency:



2. Typical L vs. DC Current:

