



Frontier Electronics Corp.

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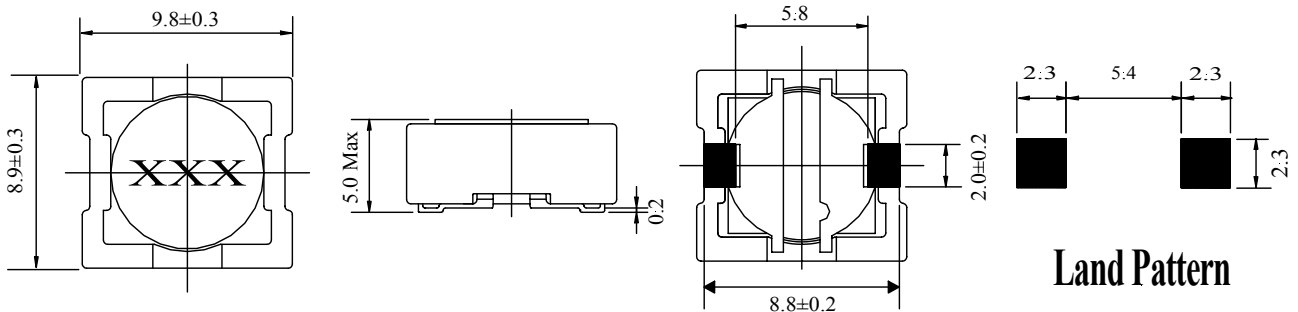
Web: frontierusa.com

SMD Power Choke—CSS1050P series

A. Electrical specifications:

Part No.	Mark	L (uH) ± 20%	Test Freq.	DCR (max) (Ω)	I rms. (A)
CSS1050P-100M	100	10	1KHz	0.050	2.40
CSS1050P-120M	120	12	1KHz	0.054	2.25
CSS1050P-150M	150	15	1KHz	0.061	2.00
CSS1050P-180M	180	18	1KHz	0.084	1.80
CSS1050P-220M	220	22	1KHz	0.094	1.65
CSS1050P-270M	270	27	1KHz	0.110	1.45
CSS1050P-330M	330	33	1KHz	0.150	1.35
CSS1050P-390M	390	39	1KHz	0.170	1.20
CSS1050P-470M	470	47	1KHz	0.210	1.10
CSS1050P-560M	560	56	1KHz	0.230	1.00
CSS1050P-680M	680	68	1KHz	0.260	0.93
CSS1050P-820M	820	82	1KHz	0.360	0.84
CSS1050P-101M	101	100	1KHz	0.410	0.76
CSS1050P-121M	121	120	1KHz	0.450	0.70
CSS1050P-151M	151	150	1KHz	0.640	0.63
CSS1050P-181M	181	180	1KHz	0.840	0.57
CSS1050P-221M	221	220	1KHz	0.960	0.52
CSS1050P-271M	271	270	1KHz	1.070	0.47
CSS1050P-331M	331	330	1KHz	1.370	0.43
CSS1050P-391M	391	390	1KHz	1.550	0.39
CSS1050P-471M	471	470	1KHz	1.740	0.36

B. Mechanical dimensions: (Unit: mm)



Type 3: Shielded Type

C. Features:

1. Tolerance: M: ± 20%.
2. Operating temperature: -30°C to +100°C.
3. Inductance measured on the HP4284A LCR meter.
4. DCR measured on the 502BC milli-ohm meter.
5. This indicates the value of current when the inductance drops no more than 35% or the temperature rises less than 40°C. (i.e.: $\Delta t < 40^\circ\text{C}$.)
6. Inductance and Current range:
 - a.) CSS0638P-series: From 10 μH (2.40A) to 470 μH (0.36A).

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



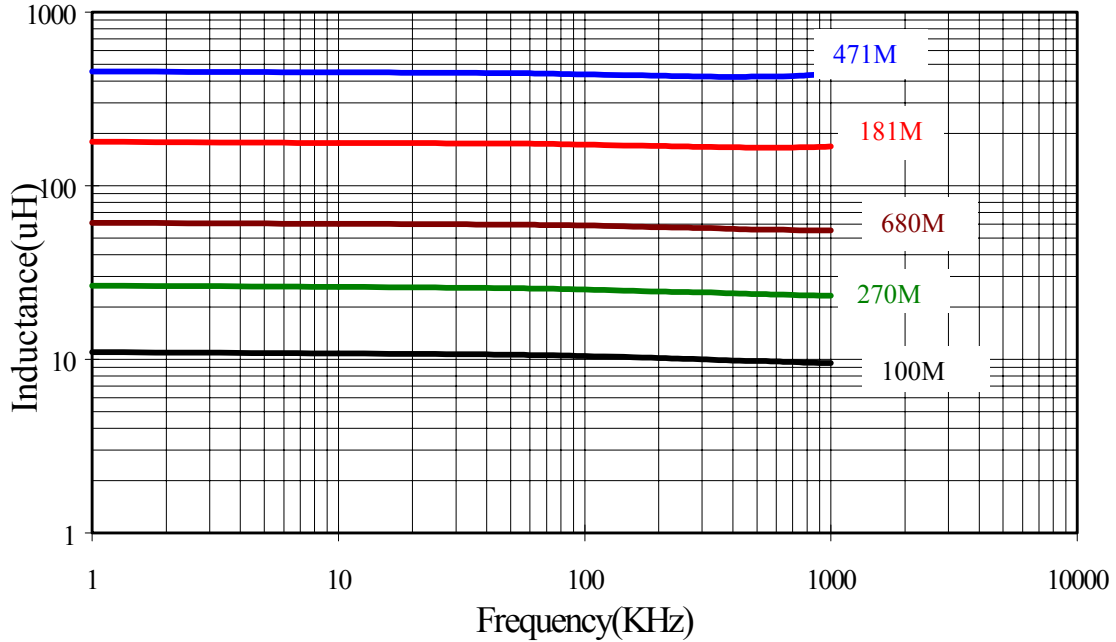
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D. Characteristic curve:

1. L vs. Frequency:



2. Typical L vs. DC Current:

