



# Frontier Electronics Corp.

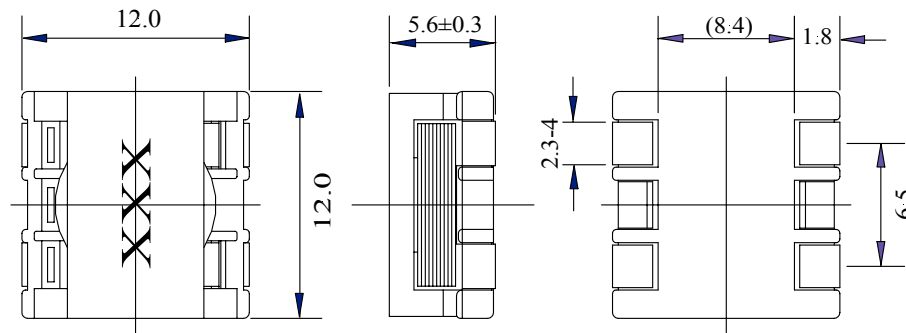
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## SMD Power Choke—CSH1250S series

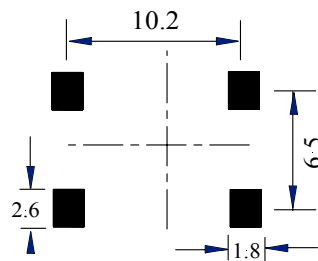
### A. Electrical specifications:

Part No.	Marking	L (uH) $\pm 30\%$	Test Freq.	DCR (m $\Omega$ max.)	I rms. (A)
CSH1250S-R80M	R80	0.80	100KHz	3.0	15.0
CSH1250S-1R4M	1R4	1.40	100KHz	3.9	13.0
CSH1250S-2R2M	2R2	2.20	100KHz	4.8	10.0
CSH1250S-3R1M	3R1	3.10	100KHz	8.0	8.1
CSH1250S-4R2M	4R2	4.20	100KHz	9.2	7.0
CSH1250S-5R5M	5R5	5.50	100KHz	11.8	6.2
CSH1250S-7R0M	7R0	7.00	100KHz	16.8	5.6

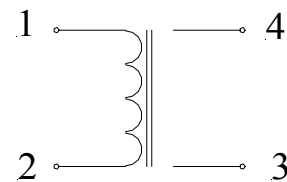
### B. Mechanical dimensions: (Unit: mm)



Mechanic Dimension



Land pattern



Schematics

### C. Features:

1. Tolerance: M:  $\pm 20\%$ , L:  $\pm 15\%$ , K:  $\pm 10\%$ .
2. Operating temperature:  $-30^{\circ}\text{C}$  TO  $+100^{\circ}\text{C}$ .
3. Inductance measured on the HP4284A LCR meter.
4. DCR measured on the 502BC milli-ohm meter.
5. Inductance drops no more than 25% at rated current applied or temperature increases  $\Delta t < 40^{\circ}\text{C}$ .
6. Flat stack wire wound perpendicular to the center of the core.
7. Inductance and Current range:
  - a.) CSS1250S: From 0.8uH(15.0A) to 7.0uH(5.6A).

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



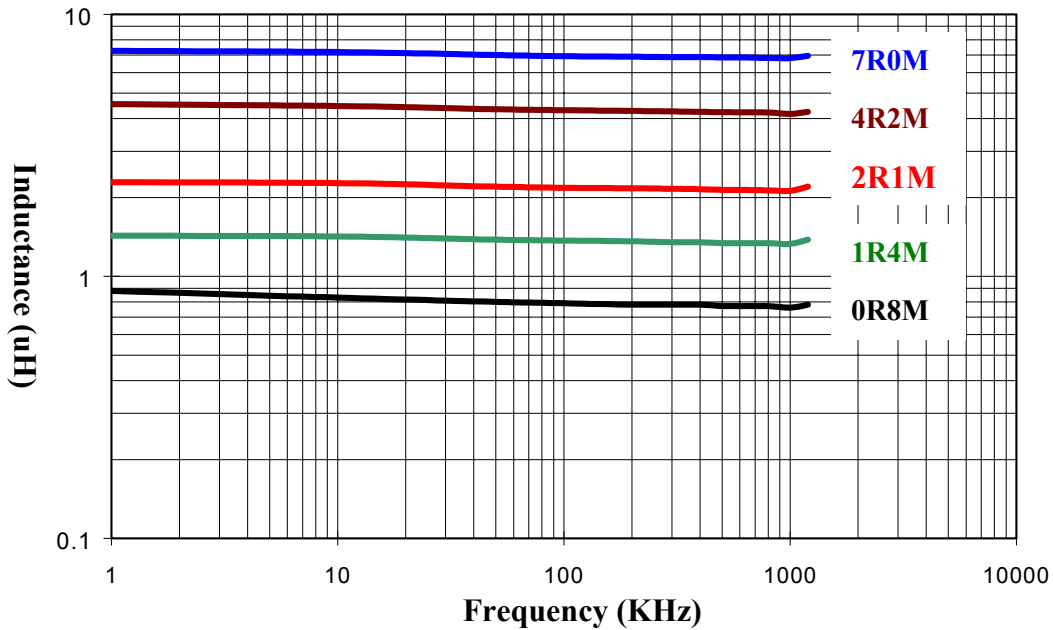
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### D. Characteristic curve:

#### 1. L vs. Frequency:



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

