



# Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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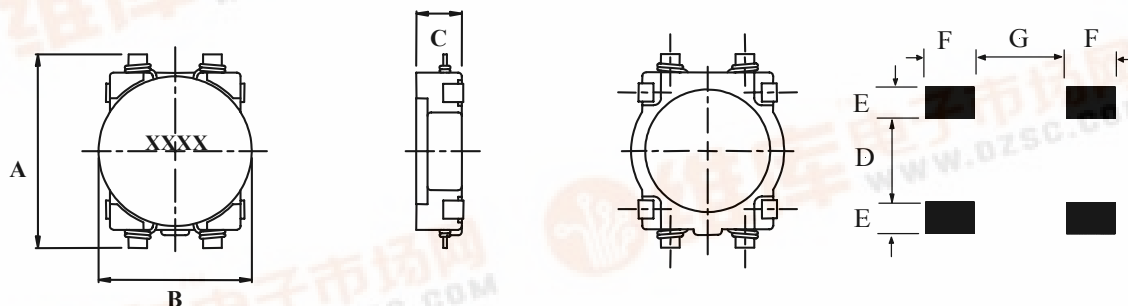
Web: frontierusa.com

## SMD Power Choke (Shielded)—CSN0410H series

### A. Electrical specifications:

| Part No.      | Mark | L (uH) | Test Freq. | DCR (max) $\Omega$ | I rms. (mA) |
|---------------|------|--------|------------|--------------------|-------------|
| CSN0410H-2R2M | 2R2  | 2.2    | 100 KHz    | 0.12               | 950         |
| CSN0410H-3R3M | 3R3  | 3.3    | 100 KHz    | 0.17               | 770         |
| CSN0410H-4R7M | 4R7  | 4.7    | 100 KHz    | 0.22               | 750         |
| CSN0410H-6R8M | 6R8  | 6.8    | 100 KHz    | 0.30               | 620         |
| CSN0410H-100M | 100  | 10     | 100 KHz    | 0.46               | 500         |
| CSN0410H-150M | 150  | 15     | 100 KHz    | 0.68               | 400         |
| CSN0410H-220M | 220  | 22     | 100 KHz    | 1.07               | 300         |
| CSN0410H-330M | 330  | 33     | 100 KHz    | 1.65               | 240         |
| CSN0410H-470M | 470  | 47     | 100 KHz    | 2.84               | 180         |
| CSN0410H-560M | 560  | 56     | 100 KHz    | 3.20               | 150         |
| CSN0410H-680M | 680  | 68     | 100 KHz    | 3.70               | 130         |
| CSN0410H-820M | 820  | 82     | 100 KHz    | 4.69               | 110         |
| CSN0410H-101M | 101  | 100    | 100 KHz    | 5.21               | 100         |

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



| SERIES # | A        | B              | C         | D    | E    | F    | G   |
|----------|----------|----------------|-----------|------|------|------|-----|
| CSN0410H | 5.8 Max. | 4.1 $\pm$ 0.30 | 1.20 Max. | 2.40 | 0.80 | 1.40 | 2.5 |

### C. Features:

- Tolerance: M:  $\pm$  20%.
- Operating temperature: -25°C TO +85°C.
- Inductance measured on the HP4284A or HP4285A LCR meter.
- DCR measured on the 502BC milli-ohm meter.
- Inductance drops no more than 10% at rated current applied or temperature rises  $\Delta t < 40^\circ\text{C}$ .
- Very low profile used for DC-DC converter, LCD driver power supply, Notebook PC, and Electro-Luminescent backlight for Digital Video Camera, Digital Still Camera, GPS, PDC etc. Portable equipment.
- Inductance range: CSN0410H-series From 2.2uH(0.950A) to 100uH(0.100A).

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



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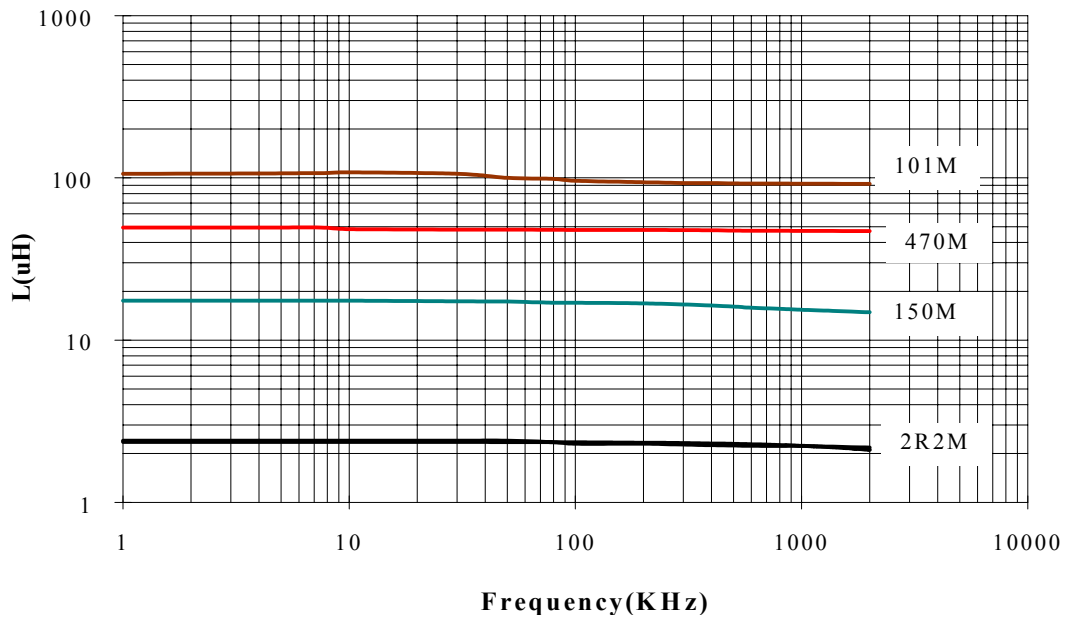
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### SMD Power Choke—CSN0410H series

#### D. Characteristic curve:

##### 1. L vs. Frequency:



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

