



Frontier Electronics Corp.

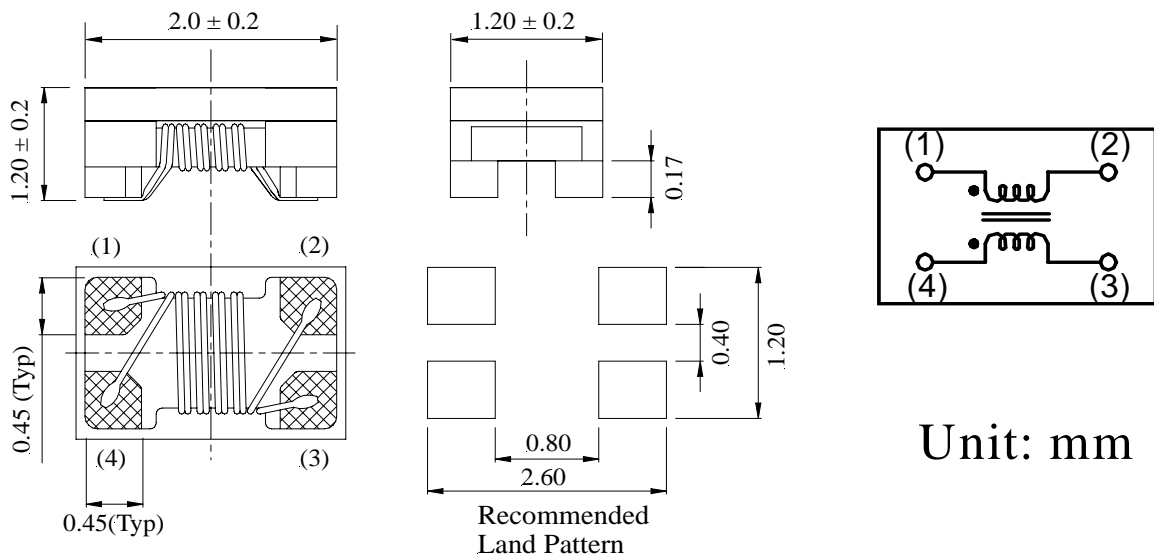
667 E. COCHRAN STREET, SIMI VALLEY, CA 93065
 TEL: (805) 522-9998 FAX: (805) 522-9989
 E-mail: frontiersales@frontierusa.com
 Web: frontierusa.com

SMD Wire Wound EMI Common Mode Chip—SCM2012F-I series

A. Electrical specifications:

| Part Number | Common Mode Impedance (Ω) (Typical) @ 100MHz | Rated Current (mA) | DCR Max. (Ω) | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance @ 125Vdc (M Ω) Min. |
|-----------------|---|--------------------|-----------------------|---------------------|-------------------------|---|
| SCM2012F-670M-I | 67 | 400 | 0.25 | 50 | 125 | 10 |
| SCM2012F-900M-I | 90 | 330 | 0.35 | | | |
| SCM2012F-121M-I | 120 | 370 | 0.30 | | | |
| SCM2012F-181M-I | 180 | 330 | 0.35 | | | |
| SCM2012F-261M-I | 260 | 300 | 0.40 | | | |
| SCM2012F-371M-I | 370 | 280 | 0.45 | | | |

B. Mechanical Drawing:



C. Features:

1. Tolerance: M: $\pm 20\%$.
2. Small size, low profile.
3. Impedance range: from 67Ω to 370Ω .
4. High common mode impedance at high frequency effects.
5. Excellent noise suppression performance.
6. Temperature rise: 15°C at rated current on 25°C ambient.
7. Operating temperature: From -40°C to $+85^\circ\text{C}$.

D. Applications:

1. Common mode noise suppression of signal lines in high speed and high-density digital equipment, such as personal computers and peripherals.
2. Suitable for differential signal line such as USB2.0, IEEE1394 and LVDS, capable of high speed signal transmission without distortion due to its high coupling.

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

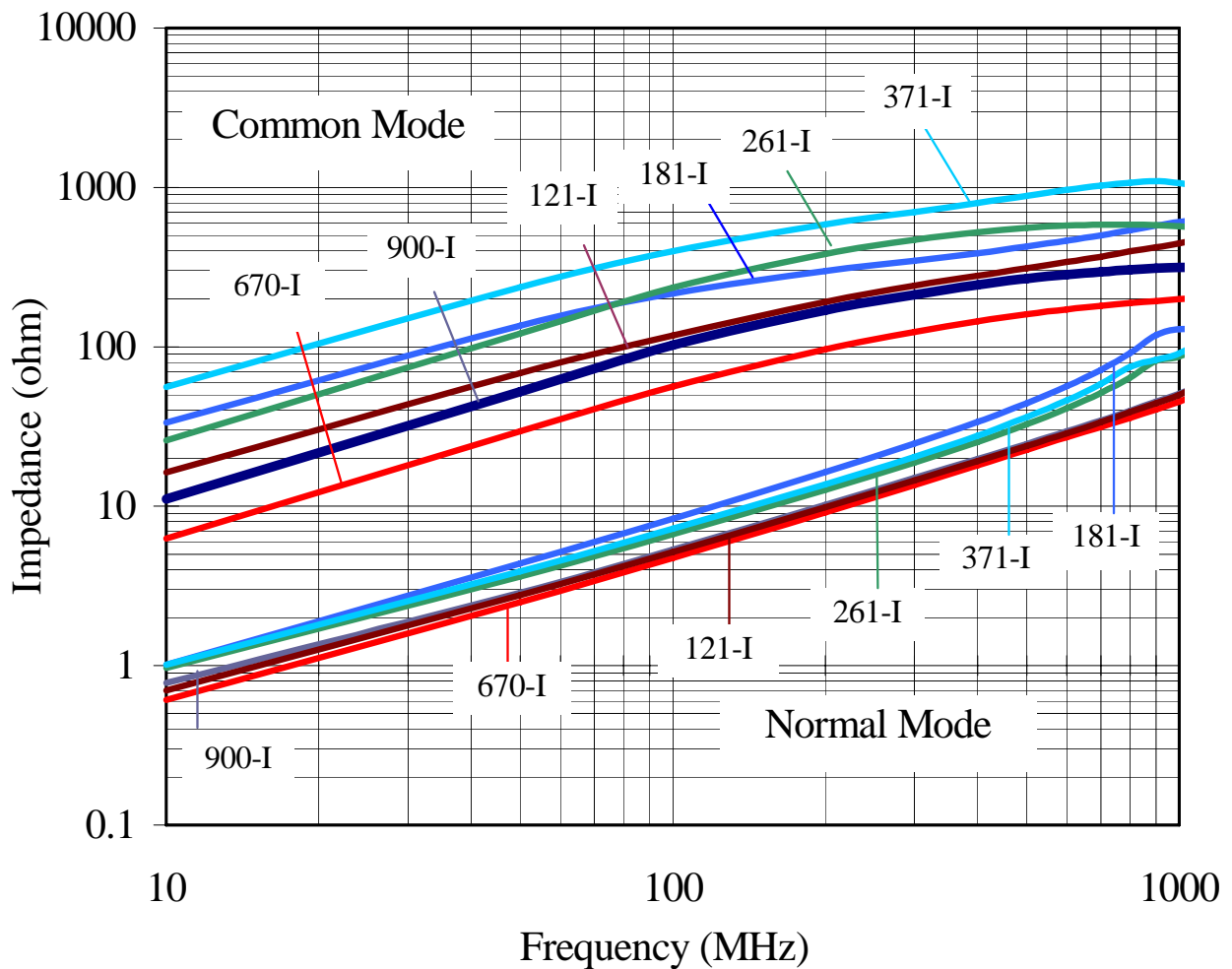


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E. Impedance curve:



Special specifications are available for customer's requirement.