

Wire Wound Type Common Mode Filter

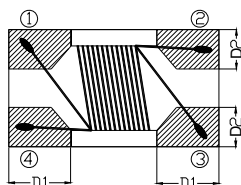
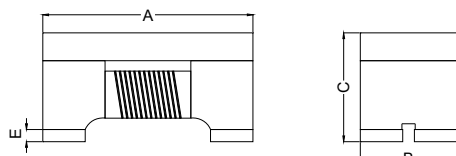
WCM2012F2SV-SERIES

1. Features

1. High common mode impedance at high frequency cause excellent noise suppression performance.
2. WCM2012F2SV series realizes small size and low profile. 2.0x1.2x1.2 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. High reliability -Reliability tests comply with AEC-Q200
5. Operating temperature-55~+125°C (Including self - temperature rise)



2. Dimension



| Series | A(mm) | B(mm) | C(mm) | D1(mm) | D2(mm) | E(mm) |
|----------|---------|---------|---------|----------|----------|----------|
| 2012F2SV | 2.0±0.2 | 1.2±0.2 | 1.2±0.2 | 0.50±0.1 | 0.51±0.1 | 0.15±0.1 |

3. Part Numbering

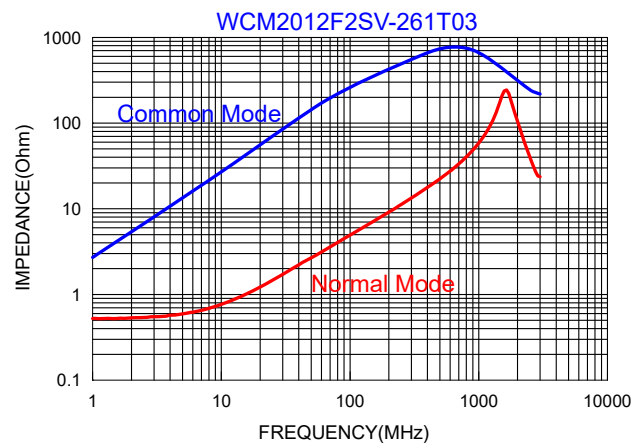
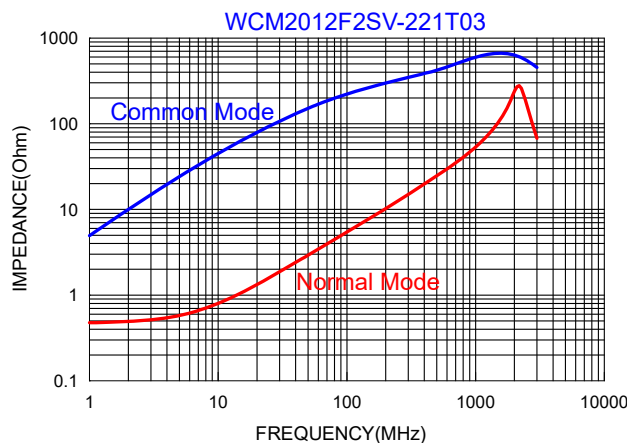
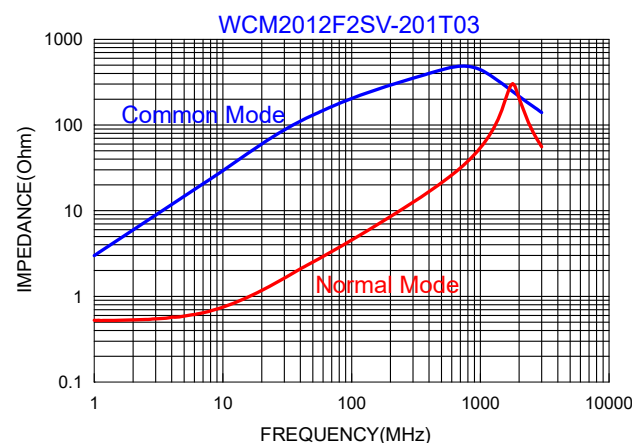
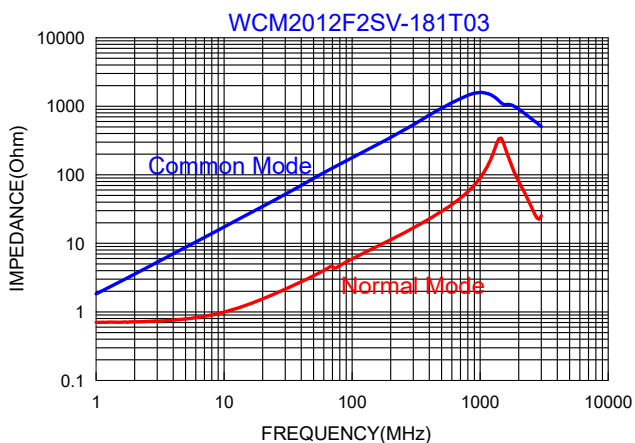
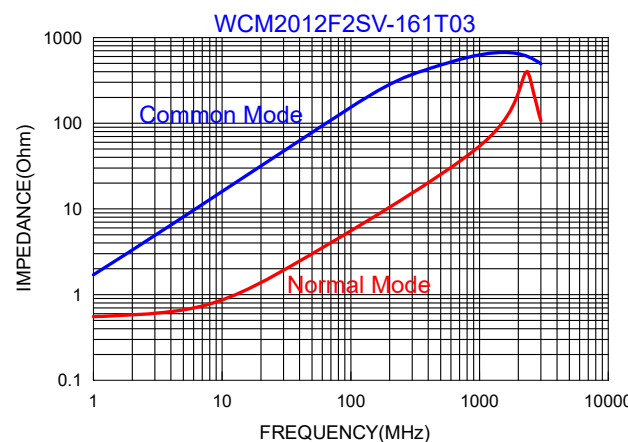
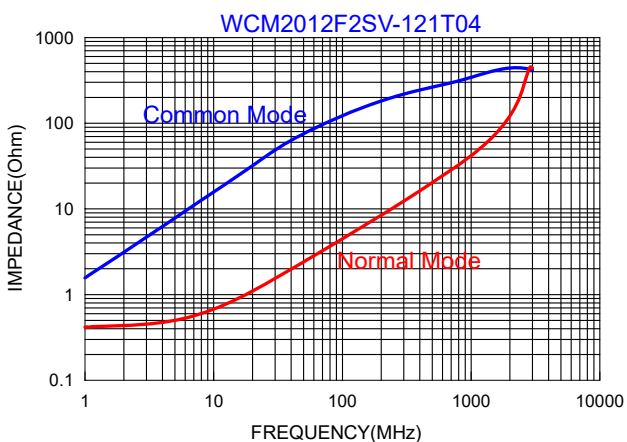
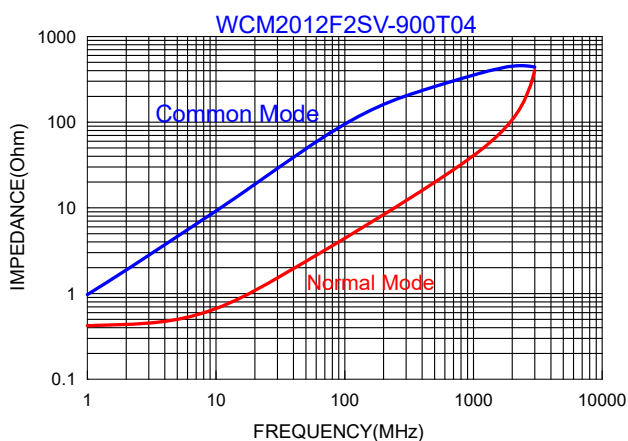
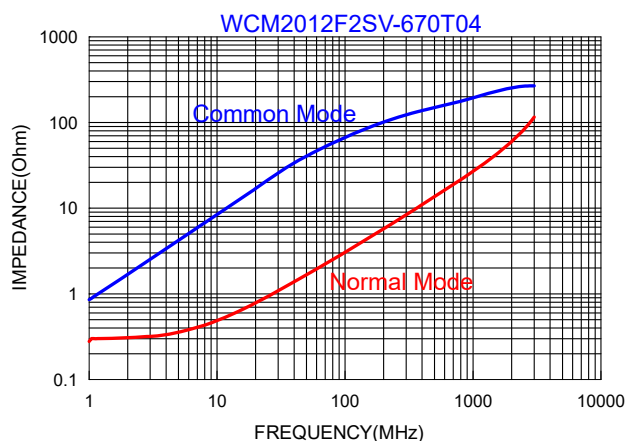


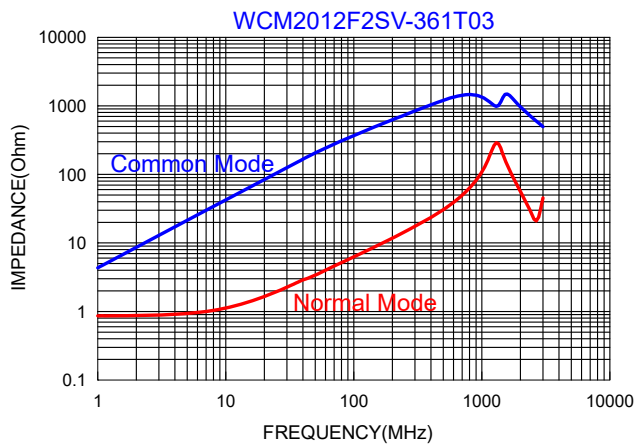
| | |
|--------------------|---------------------------|
| A: Series | |
| B: Dimension | |
| C: Material | Ferrite Core |
| D: Number of Lines | 2=2 lines |
| E: Type | S=Shielded , N=Unshielded |
| F: Category Code | V=Vehicle |
| G: Impedance | 900=90Ω |
| H: Packaging | T=Taping and Reel |
| I: Rated Current | 04=400mA |

4. Specification

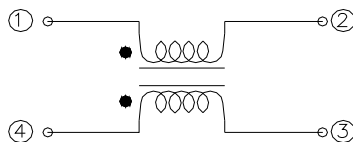
| TAI-TECH Part Number | Common mode Impedance (Ω) | Test Frequency (MHz) | DC Resistance (Ω) max. | Rated Current (mA)max. | Rated Volt. (Vdc)max. | Withstand Volt. (Vdc) max. | IR (Ω) min. |
|----------------------|---------------------------|----------------------|------------------------|------------------------|-----------------------|----------------------------|-------------|
| WCM2012F2SV-670T04 | 67±25% | 100 | 0.25 | 400 | 50 | 125 | 10M |
| WCM2012F2SV-900T04 | 90±25% | 100 | 0.30 | 400 | 50 | 125 | 10M |
| WCM2012F2SV-121T04 | 120±25% | 100 | 0.30 | 400 | 50 | 125 | 10M |
| WCM2012F2SV-161T03 | 160±25% | 100 | 0.35 | 350 | 50 | 125 | 10M |
| WCM2012F2SV-181T03 | 180±25% | 100 | 0.35 | 350 | 50 | 125 | 10M |
| WCM2012F2SV-201T03 | 200±25% | 100 | 0.40 | 300 | 50 | 125 | 10M |
| WCM2012F2SV-221T03 | 220±25% | 100 | 0.40 | 300 | 50 | 125 | 10M |
| WCM2012F2SV-261T03 | 260±25% | 100 | 0.40 | 300 | 50 | 125 | 10M |
| WCM2012F2SV-361T03 | 360±25% | 100 | 0.50 | 300 | 50 | 125 | 10M |

Typical Impedance v.s. Frequency Curve





5. Schematic Diagram



6. Recommended PC Board Pattern

| | WCM2012F2S |
|--------|------------|
| L(mm) | 2.60 |
| H(mm) | 1.40 |
| G1(mm) | 1.25 |
| G2(mm) | 0.45 |

