

FCMC series (Rev. 4.1)



Features

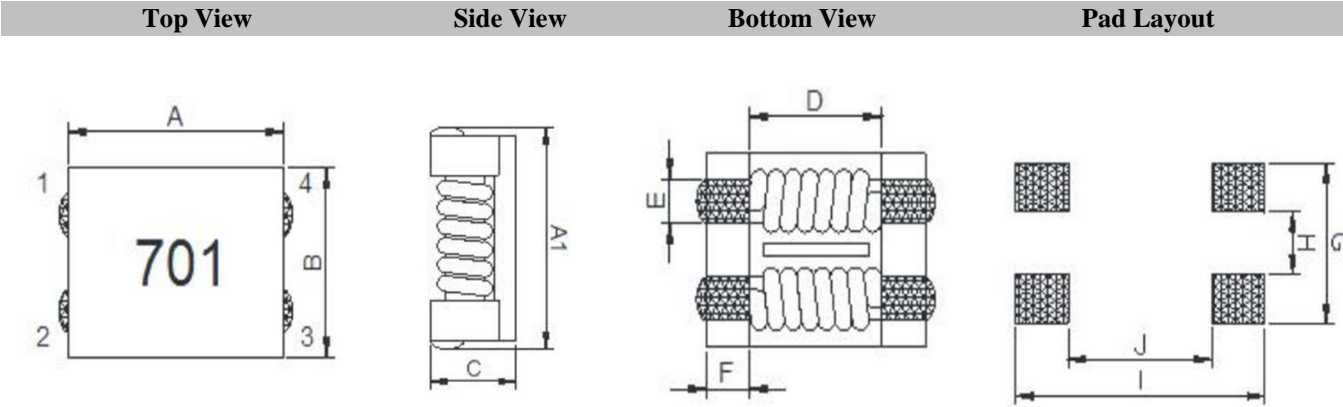
- * Common Mode Filter for high Current Capacity
- * Fit for power line & signal line circuit
- * To help you go pass the CE/FCC standard
- * Lower cost

Product Identification

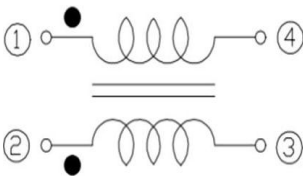
FCMC 7060 - 701 T L
1 2 3 4 5

- 1. Product Code
- 2. Size Code (L*W): 7.0*6.0mm
- 3. Impedance: 700Ω
- 4. Tolerance: T=typical
- 5. Type: L= landscape

Dimension & Recommended Pad Layout: [mm]



Schematics:



| Size Code | A(±0.5) | A1(±0.5) | B(±0.5) | C(max.) | D(ref.) | E(ref.) | F(ref.) | G(ref.) | H(ref.) | I(ref.) | J(ref.) |
|-----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 7060 | 7.0 | 7.5 | 6.0 | 3.8 | 3.5 | 1.5 | 1.7 | 5.0 | 1.5 | 8.0 | 3.0 |
| 9070 | 9.0 | 9.5 | 7.0 | 4.8 | 5.6 | 1.5 | 1.7 | 5.5 | 1.5 | 10.5 | 5.0 |

Applications

- * Mobile Device
- * Handheld Device
- * LowProfile Device, LCD.

Operating & Storage Condition :

- * Operating Temp :Stand Type:-40 to +85 ℃
- * Storage Life Time:12 months @25 ℃, RH 65%
- * Storage Temp : Stand Type -40 to +85 ℃

Test Equipment :

- * HP4284A,HP42841A-L,IDC,Q,RDC
- * HP8753D NETWORK ANALYZER-SRF

Standard Atmospheric Conditions :

- * Ambient Temp : 20+/-15 ℃
- * Relative Humidity : 65+/-20%
- * Relative Humidity : 65+/-20%

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Electrical Characteristics

| Part No. | Z PIN 1-4 & 2-3 @100MHz (Ω) | | Rated Voltage (V) | Insulation Resistance (MΩ) min. | DCR PIN 1-4 & 2-3 (mΩ) max. | IDC (A) max. |
|----------------|------------------------------------|------|-------------------------|---------------------------------------|-----------------------------------|-----------------|
| | min. | typ. | | | | |
| FCMC7060-400TL | 40 | 70 | 80 | 10.0 | 5.0 | 15.0 |
| FCMC7060-101TL | 100 | 140 | 80 | 10.0 | 10.0 | 9.0 |
| FCMC7060-301TL | 225 | 300 | 80 | 10.0 | 10.0 | 5.0 |
| FCMC7060-501TL | 275 | 500 | 80 | 10.0 | 10.0 | 5.0 |
| FCMC7060-601TL | 500 | 700 | 80 | 10.0 | 15.0 | 4.0 |
| FCMC7060-701TL | 500 | 700 | 80 | 10.0 | 15.0 | 4.0 |
| FCMC7060-102TL | 800 | 1020 | 80 | 10.0 | 17.0 | 3.0 |
| FCMC7060-132TL | 910 | 1300 | 80 | 10.0 | 21.0 | 2.5 |
| FCMC7060-272TL | 2000 | 2700 | 80 | 10.0 | 63.0 | 1.0 |
| FCMC7060-302TL | 2500 | 3000 | 80 | 10.0 | 75.0 | 0.9 |
| FCMC9070-301TL | 225 | 300 | 80 | 10.0 | 6.0 | 6.0 |
| FCMC9070-501TL | 450 | 500 | 80 | 10.0 | 8.0 | 5.5 |
| FCMC9070-701TL | 500 | 700 | 80 | 10.0 | 10.0 | 5.0 |
| FCMC9070-102TL | 750 | 1000 | 80 | 10.0 | 13.0 | 4.0 |
| FCMC9070-222TL | 1700 | 2200 | 80 | 10.0 | 50.0 | 3.0 |
| FCMC9070-272TL | 2000 | 2700 | 80 | 10.0 | 86.0 | 2.0 |

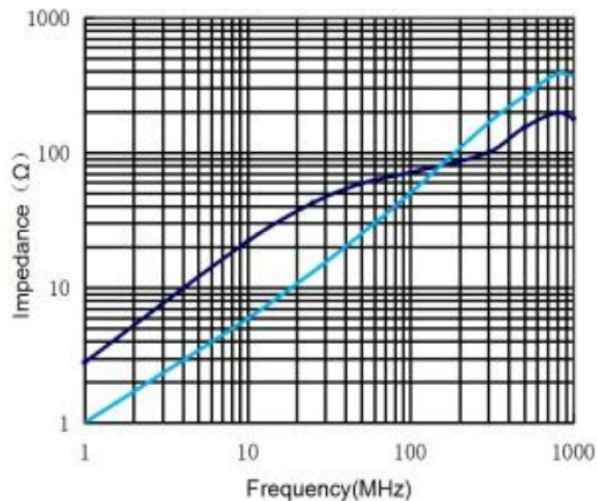
Remark:

- IDC: The actual value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

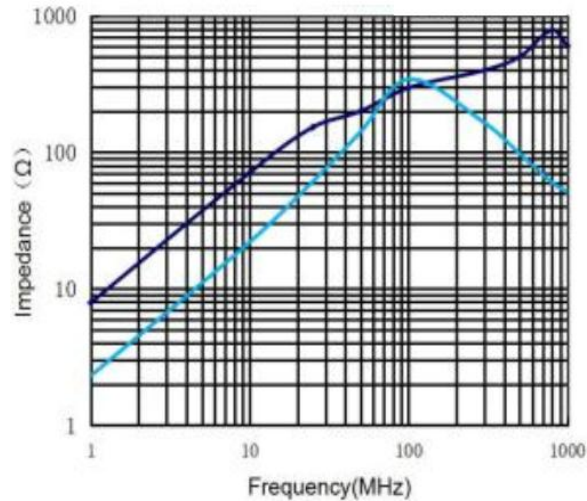
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CHARACTERISTICS(REFERENCE)

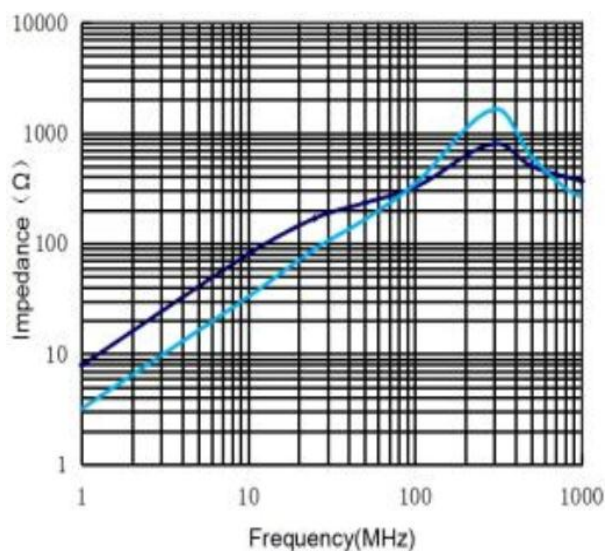
7060-400



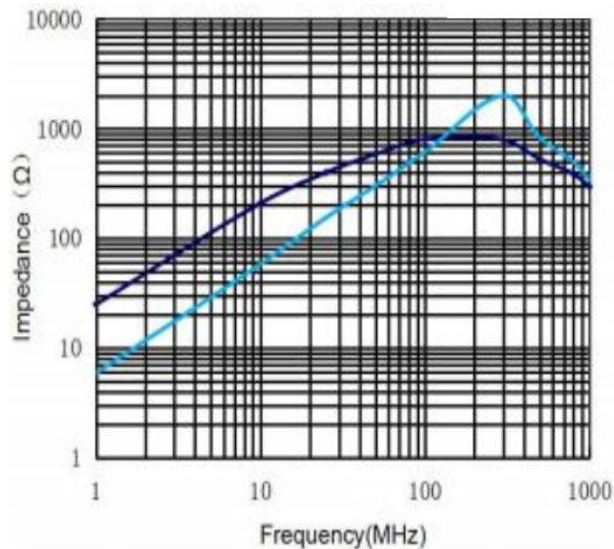
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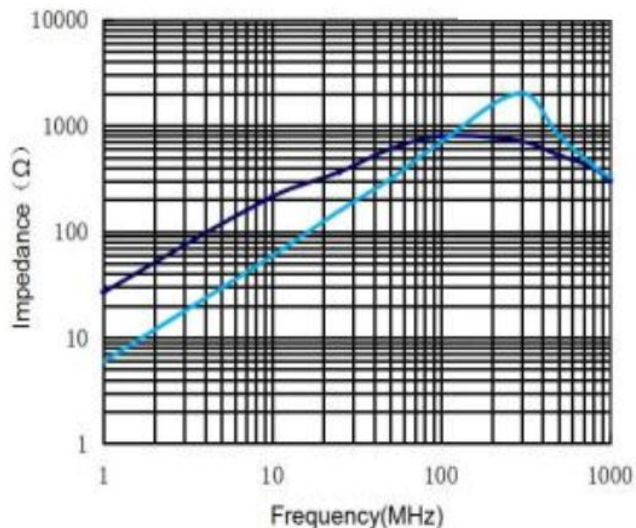
7060-301



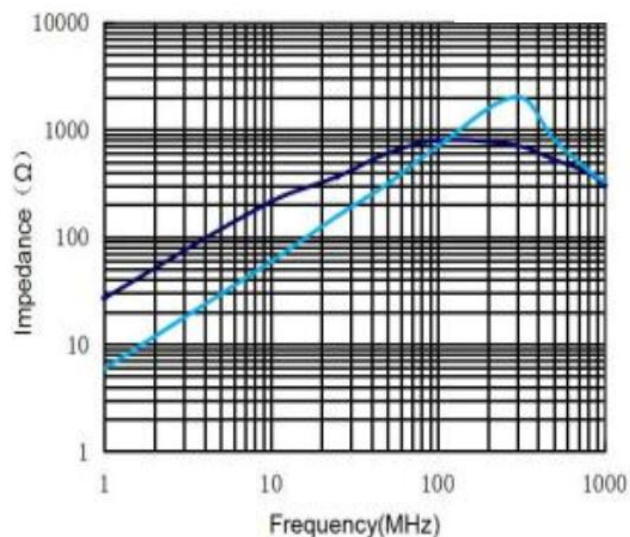
7060-501



7060-601



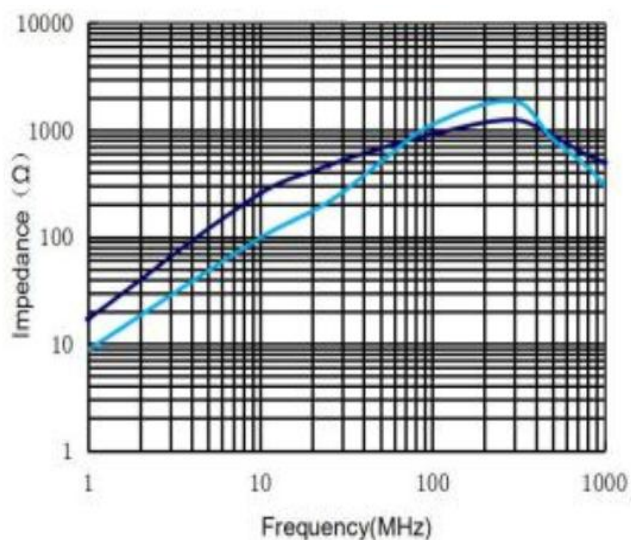
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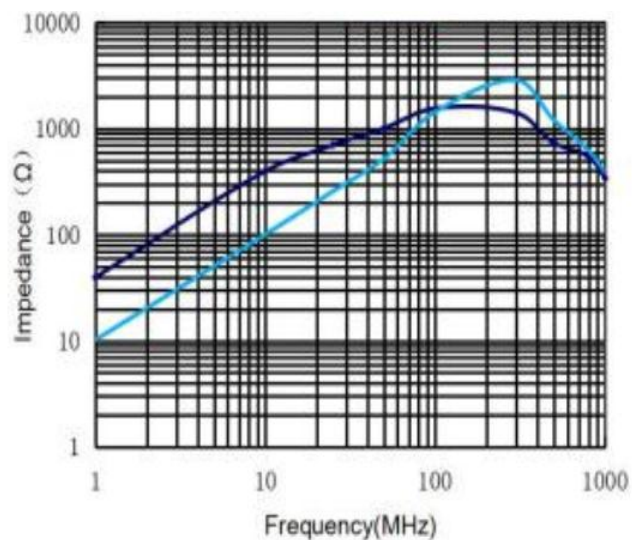
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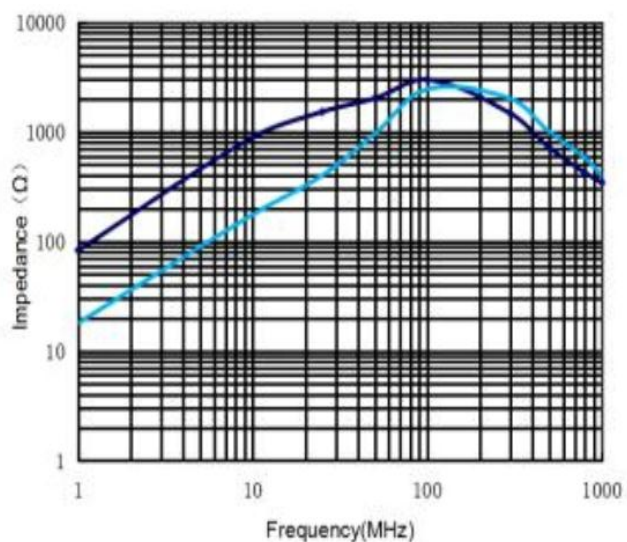
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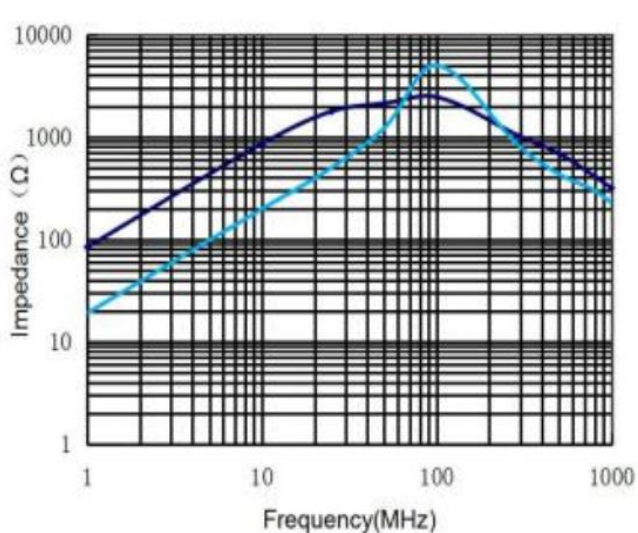
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7060-272



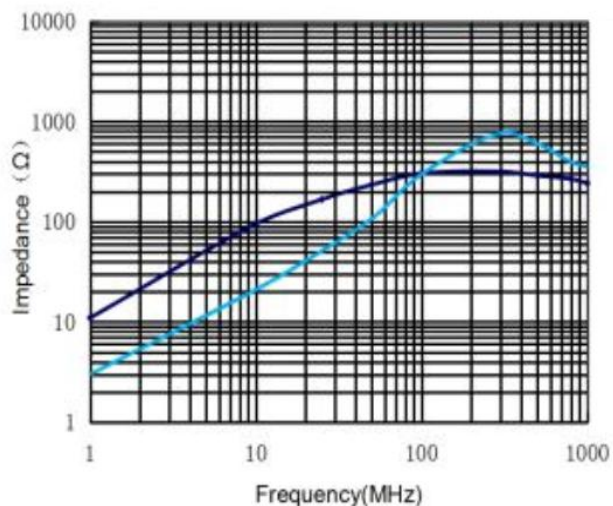
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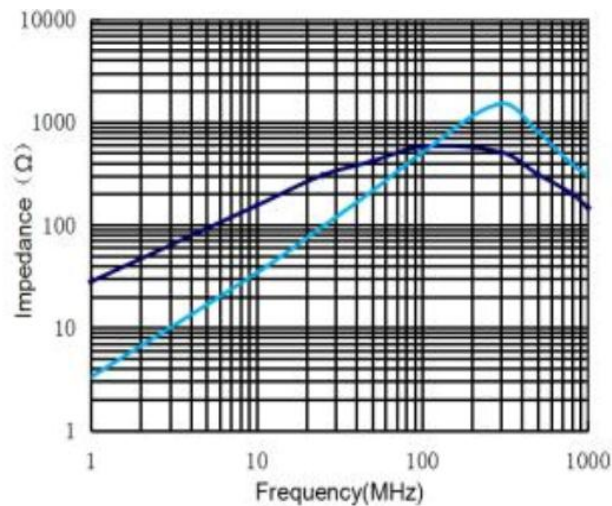
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CHARACTERISTICS(REFERENCE)

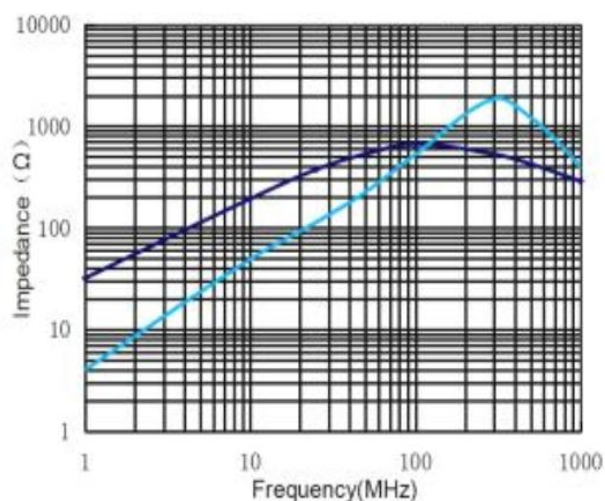
9070-301



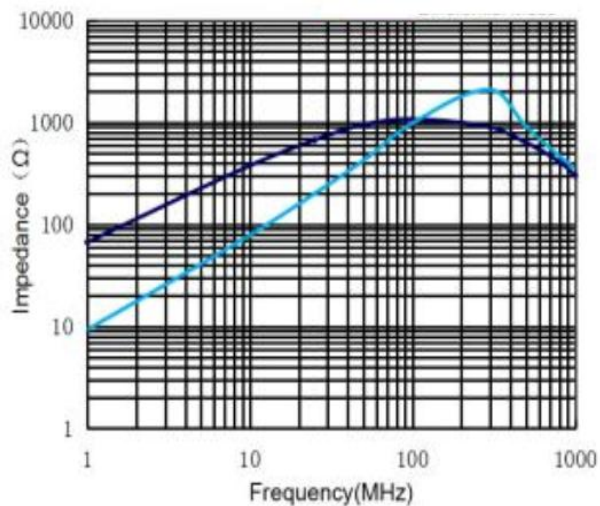
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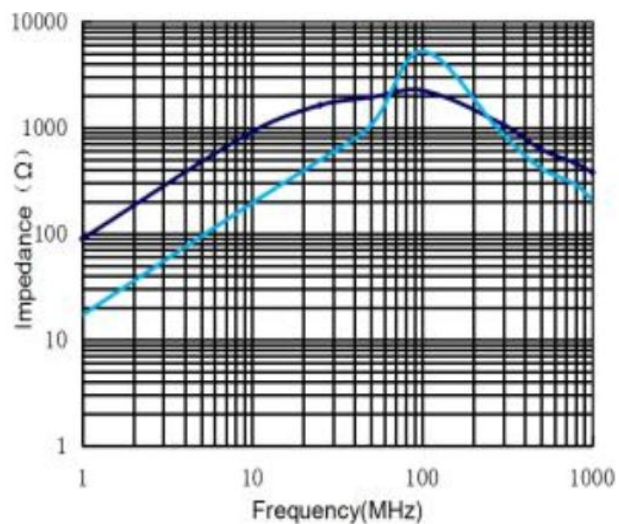
9070-701



9070-102



9070-222



9070-272

