Data Sheet

- ITEM　　　　:　COMMON MODE FILTER

- PART NO　　:　ICMF112P900MFR

1. GENERALS

• This specification covers the engineering requirements for the ICMF112P900M (Common Mode Filter)

2. FEATURES

• Effective for suppressing common mode noise and almost no effect for high speed differential data line

• Ultra low profile (1.2 x 1.0 x 0.6mm)

• Ceramic multilayer type SMD component

• Non-polarized product

• It is a product conforming to RoHS directive.

3. APPLICATIONS

• LVDS lines in notebook computers

• USB2.0, IEEE1394, DVI, HDMI lines in PDP, LCD TV, DVD Player, PC, Audio player, DSC

• MDDI, MIPI in mobile phone

4. PRODUCT SPECIFICATIONS

4. 1 PART NUMBER CODE

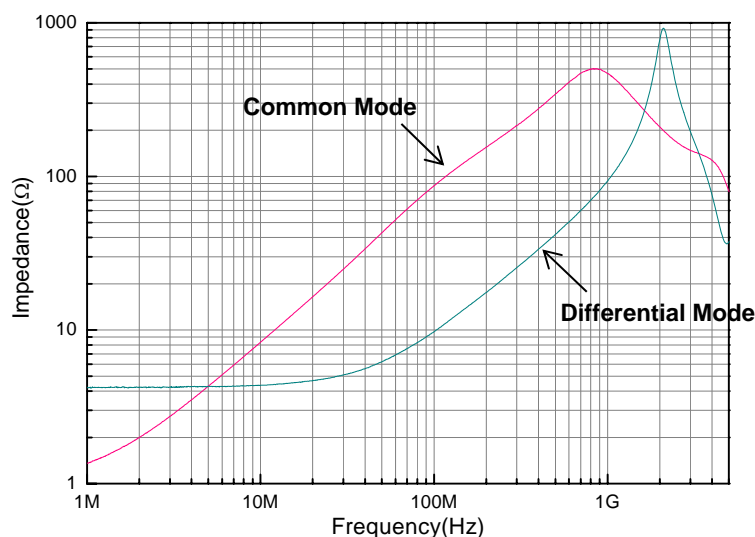<u>ICMF</u>　<u>11</u>　<u>2P</u>　<u>900</u>　<u>M</u>　<u>F</u>　<u>R</u>
① 　② 　③ 　④ 　⑤ 　⑥ 　⑦

① Series name of ICT's Common Mode Filter

② Dimensions, 1.2mm (L) x 1.0mm (W)

③ The Number of lines, 2P = 2 lines

④ Common Mode Impedance (at 100MHz), 900= 90Ω

⑤ Tolerance of common mode impedance, M= ±25%

⑥ Type of electrode plating: F= Lead Free

⑦ Packing Type, R= Reel

4. 2 SPECIFICATION OF ELECTRICAL CHARACTERISTICS

Characteristics	Common Mode Impedance	Resistance	Insulation Resistance	Rated Current
symbol	Z_{CM}	R_{DC}	IR_{CR}	I_R
Units	Ω	Ω	MΩ	mA
Test Condition	@100MHz	25℃±2℃	10V	25℃±2℃
Value	90(±25%)	Max 4.0	Max 10	Max 100

- **Impedance Curves**

- **Transmission characteristics (S-parameter)**
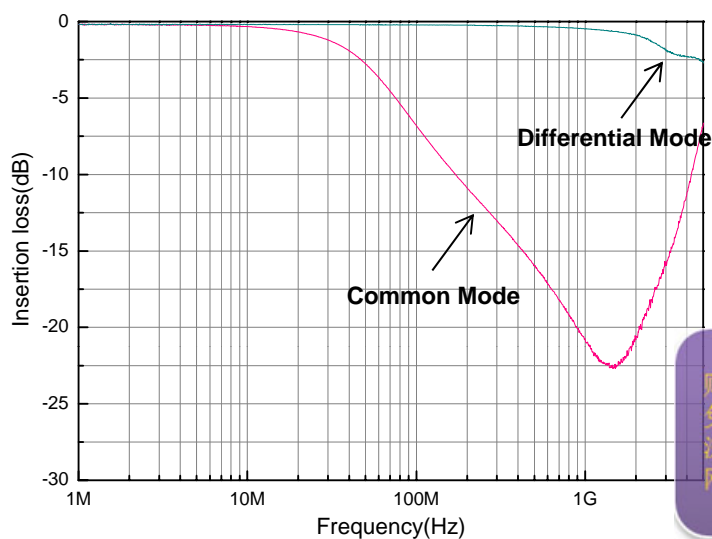
4. 3 OPERATING TEMPERATURE

DESCRIPTION	REQUIREMENTS
Operating Temperature	-40℃ ~ + 85℃

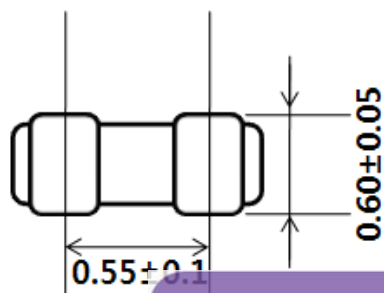## 5. EQUIVALENT CIRCUIT
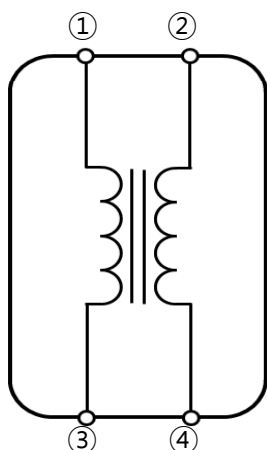
PIN NUMBER	DESCRIPTION
①~④	DATA LINE

6. MECHANICAL PROPERTY

6. 1 Appearance and Dimension

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Unit : mm