

# Data Sheet

- ITEM : COMMON MODE FILTER  
- PART NO : ICMF112P201MFR

## 1. GENERALS

- This specification covers the engineering requirements for the ICMF112P201M (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 in PDP, LCD TV, DVD Player, PC, Audio player, DSC

## 4. PRODUCT SPECIFICATIONS

### 4. 1 PART NUMBER CODE

<b>ICMF</b>	<b>11</b>	<b>2P</b>	<b>201</b>	<b>M</b>
①	②	③	④	⑤

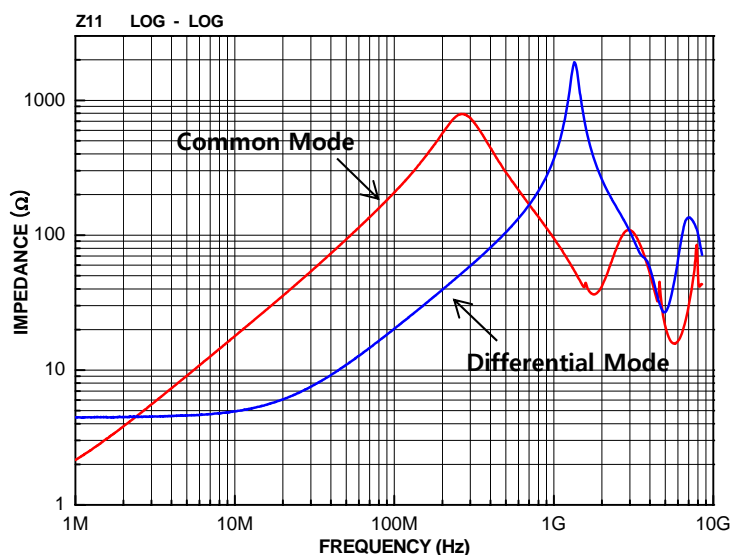
- ① Series name of ICT's Common Mode Filter
- ② Dimensions, 1.25mm (L) x 1.0mm (W)
- ③ The Number of lines, 2P = 2 lines
- ④ Common Mode Impedance (at 100MHz), 201= 200Ω
- ⑤ Tolerance of common mode impedance, M= ±25%

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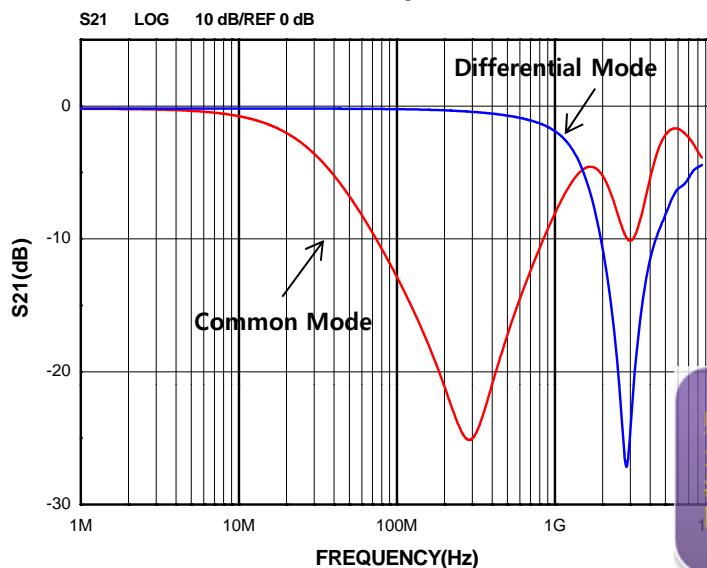
## 4. 2 SPECIFICATION OF ELECTRICAL CHARACTERISTICS

Characteristics	Common Mode Impedance	Resistance	Insulation Resistance	Rated Current
symbol	$Z_{CM}$	$R_{DC}$	$IR_{CR}$	$I_R$
Units	$\Omega$	$\Omega$	$M\Omega$	mA
Test Condition	@100MHz	$25^{\circ}C \pm 2^{\circ}C$	10V	$25^{\circ}C \pm 2^{\circ}C$
Value	200( $\pm 25\%$ )	Max 4.0	Max 10	Max 100

### - Impedance Curves



### - Transmission characteristics (S-parameter)

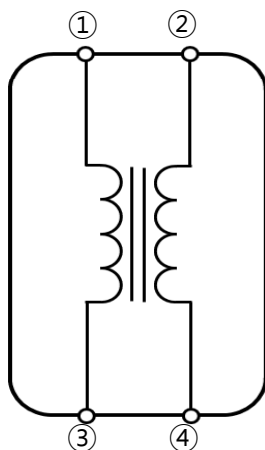


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#### 4. 3 OPERATING TEMPERATURE

DESCRIPTION	REQUIREMENTS
Operating Temperature	-40°C ~ + 85°C

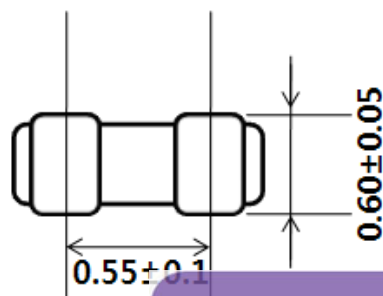
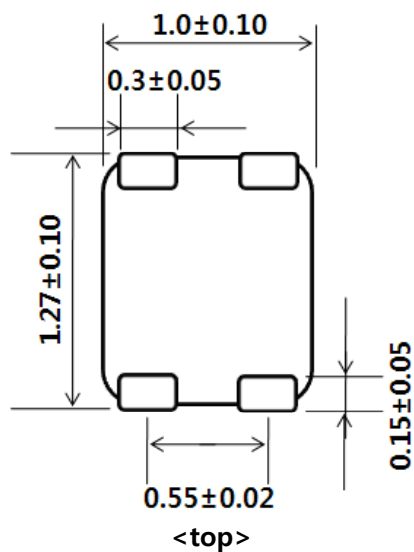
#### 5. EQUIVALENT CIRCUIT



PIN NUMBER	DESCRIPTION
① ~ ④	DATA LINE

#### 6. MECHANICAL PROPERTY

##### 6. 1 Appearance and Dimension



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Unit : mm