

# Data Sheet

- ITEM : COMMON MODE FILTER  
- PART NO : ICMF212P121MFR

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Common Mode Filter	ICMF212P121MFR	2

## 1. GENERALS

- This specification covers the engineering requirements for the ICMF212P121M (Common Mode Filter)

## 2. FEATURES

- Effective for suppressing common mode noise and almost no effect for high speed differential data line
- Ultra low profile (2.0 x 1.2 x 0.8mm)
- 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

ICMF    21    2P    121    M    F    R  
 ①        ②        ③        ④        ⑤        ⑥        ⑦

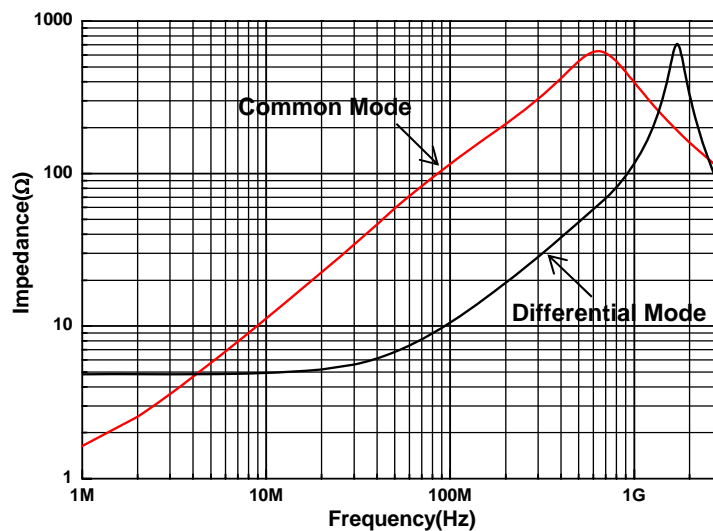
- ① Series name of ICT's Common Mode Filter
- ② Dimensions, 2.0mm (L) x 1.2mm (W)
- ③ The Number of lines, 2P = 2 lines
- ④ Common Mode Impedance (at 100MHz), 121= 120Ω
- ⑤ Tolerance of common mode impedance, M= ±25%
- ⑥ Type of electrode plating: F= Lead Free
- ⑦ Packing Type, R= Reel

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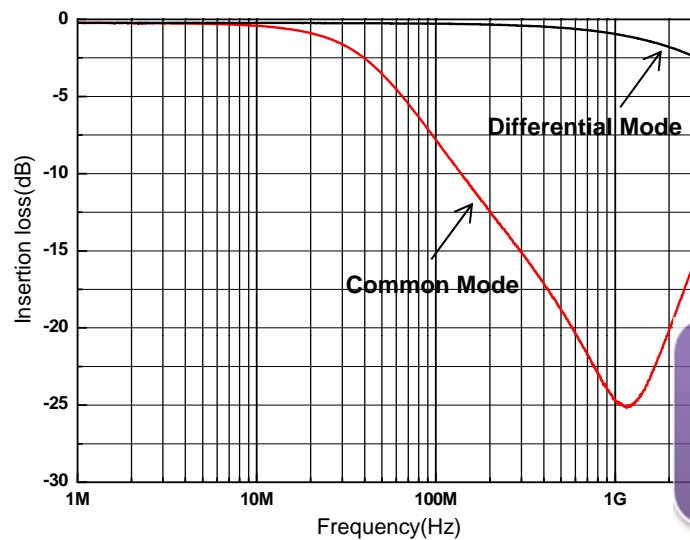
## 4. 2 SPECIFICATION OF ELECTRICAL CHARACTERISTICS

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°C±2°C	10V	25°C±2°C
Value	120(±25%)	Max 4.0	Max 10	Max 100

### - Impedance Curves



### - Transmission characteristics (S-parameter)

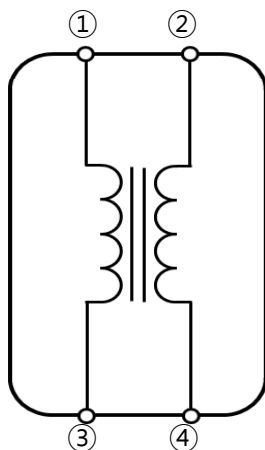


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### 4. 3 OPERATING TEMPERATURE

DESCRIPTION	REQUIREMENTS
Operating Temperature	-40℃ ~ + 85℃

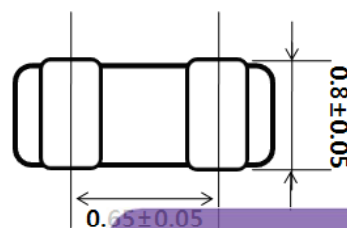
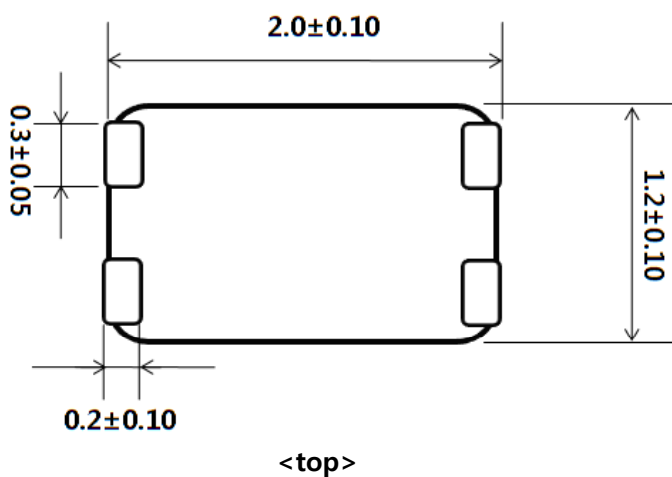
## 5. EQUIVALENT CIRCUIT



PIN NUMBER	DESCRIPTION
①~④	DATA LINE

## 6. MECHANICAL PROPERTY

### 6. 1 Appearance and Dimension



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Unit : mm