

Data Sheet

- ITEM : COMMON MODE FILTER
- PART NO : ICMF214P181MFR

ITEM	P/N	Page
Common Mode Filter	ICMF214P181MFR	2

1. Generals

- This specification covers the engineering requirements for the ICMF214P181M (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 4P 181 M F R
 ① ② ③ ④ ⑤ ⑥ ⑦

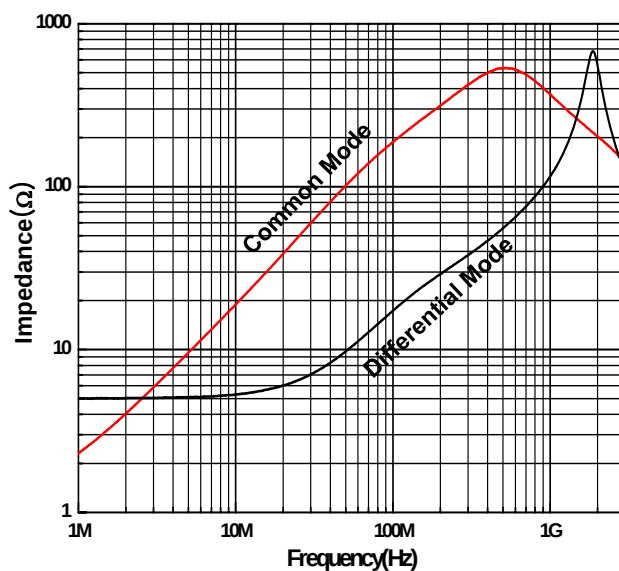
- ① Series name of ICT's Common Mode Filter
- ② Dimensions, 2.0mm (L) x 1.20mm (W)
- ③ The number of lines, 4P= 4 lines
- ④ Common Mode Impedance (at 100MHz) 181= 180Ω
- ⑤ Tolerance of common mode impedance, M= ±25%
- ⑥ Type of electrode plating: F= Lead Free
- ⑦ Packing Type, R= Reel

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 深圳总部电话: 0755-28187877
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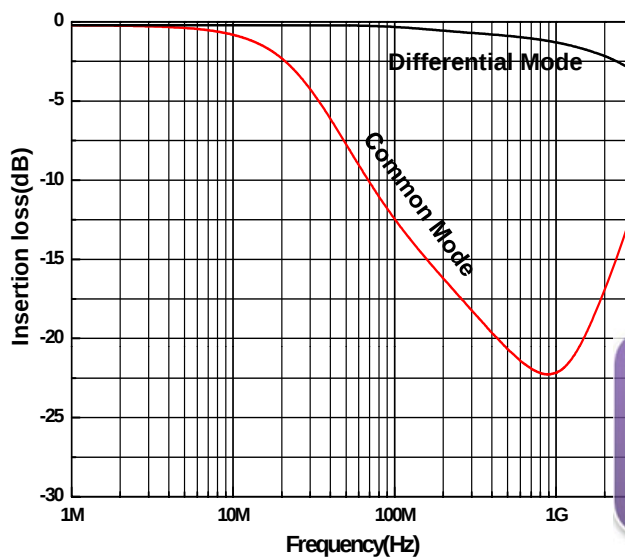
4. 2 Specification of electrical characteristics

Characteristics	Common Mode Impedance	Resistance	Insulation Resistance	Rated Current
symbol	Z_{CM}	R_{DC}	IR_{CR}	I_R
Units	Ω	Ω	$M\Omega$	mA
Test Condition	@100MHz	$25^{\circ}C \pm 2^{\circ}C$	10V	$25^{\circ}C \pm 2^{\circ}C$
Value	180($\pm 25\%$)	Max 4.0	Max 10	Max 100

- Impedance Curves



- Transmission characteristics (S-parameter)

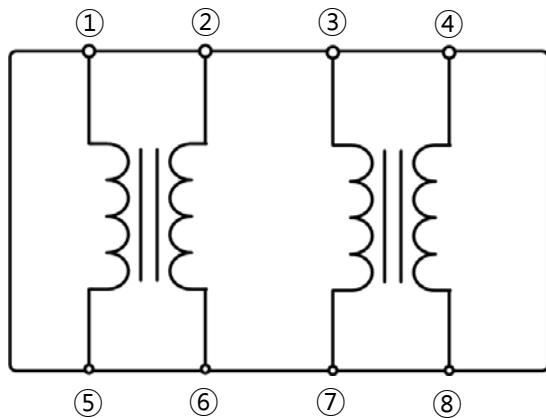


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4. 3 Operating Temperature

DESCRIPTION	REQUIREMENTS
Operating Temperature	-40℃ ~ + 85℃

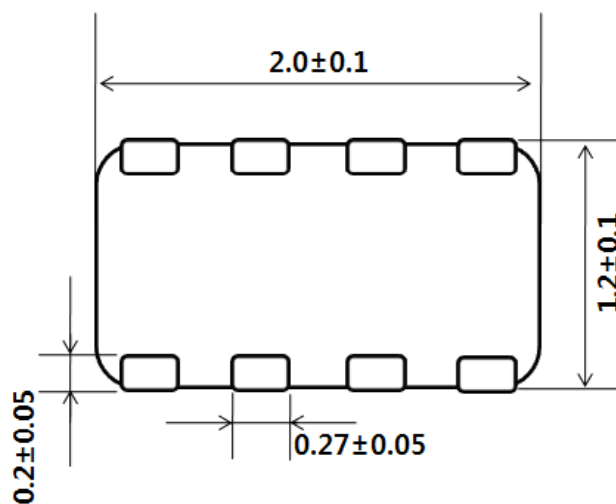
5. Equivalent Circuit



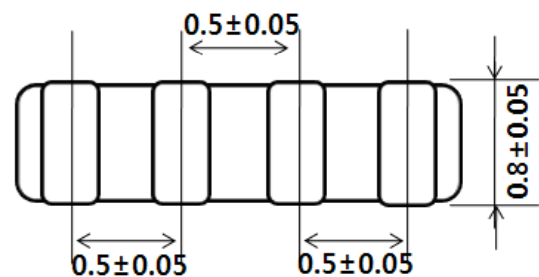
PIN NUMBER	DESCRIPTION
①~⑧	DATA LINE

6. Mechanical Property

6. 1 Appearance and Dimension



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Unit : mm