

Technical proposal for JX-CC3-758M4000M-20S2 Cavity Combiner

◆ High Performance

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2024/03/19	Lee	Created	/

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JING XIN MICROWAVE TECHNOLOGY CO.,LTD

E-mail: sales@cdjx-mw.com Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.

1. Mechanical layout

Table 1 Mechanical specifications @ JX-CC3-758M4000M-20S2

Dimension	L x W x H: 129mm x 39.5mm(Max50.5mm) x 56mm
Port connectors	SMA-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

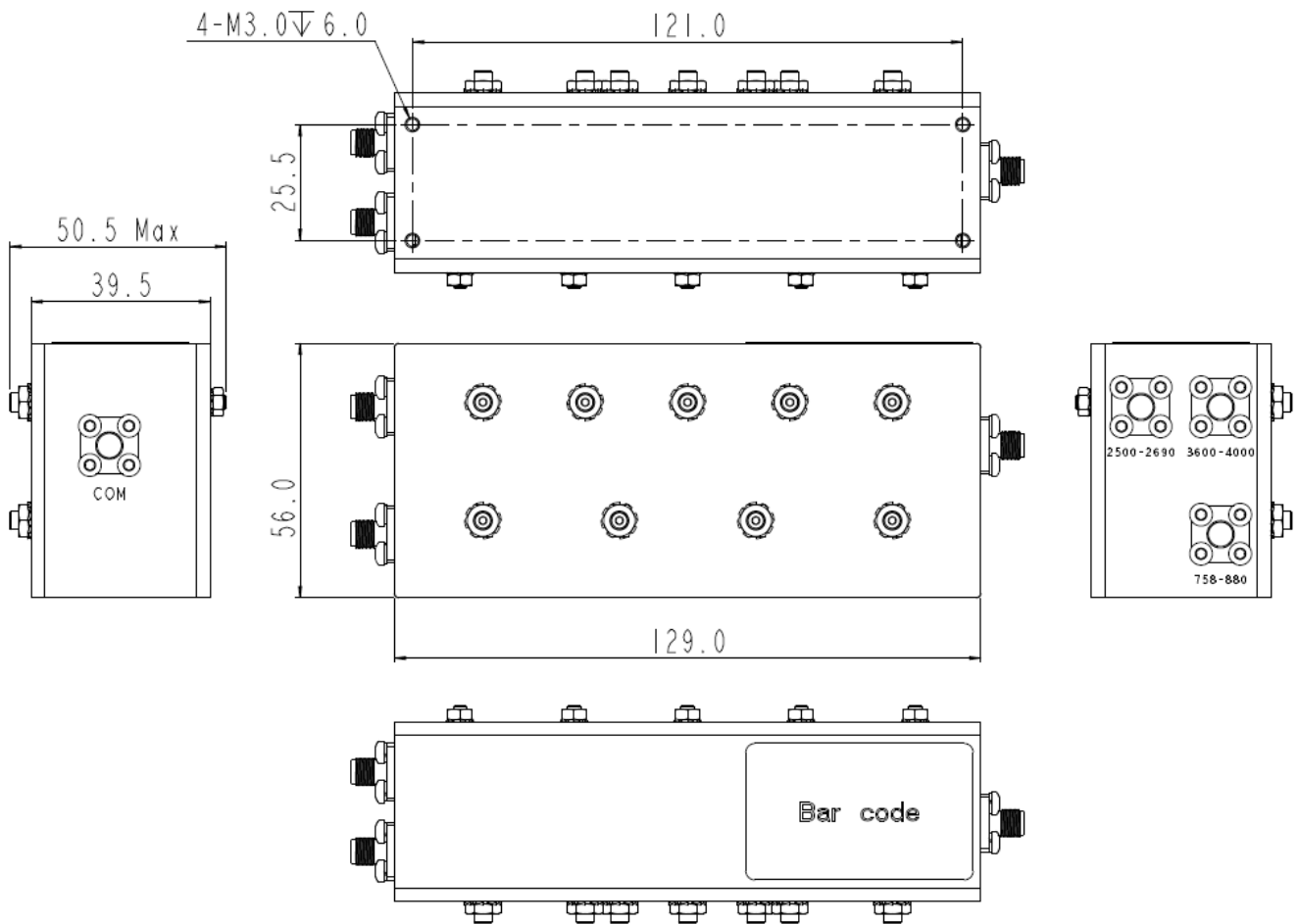


Figure 1 JX-CC3-758M4000M-20S2 front panel layout

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2. Electrical analysis

2.1 Electrical specification

Table 2 Electrical specifications @ JX-CC3-758M4000M-20S2

Item	Parameter	CH1	CH2	CH3
1	Frequency range	758-880MHz	2500-2690MHz	3600-4000MHz
2	Bandwidth	122MHz	190MHz	400MHz
3	Insertion loss	$\leq 1.0\text{dB}$	$\leq 1.0\text{dB}$	$\leq 1.0\text{dB}$
4	Ripple in BW	$\leq 1.5\text{dB}$	$\leq 1.5\text{dB}$	$\leq 1.5\text{dB}$
5	Return loss	$\geq 15\text{dB}$	$\geq 15\text{dB}$	$\geq 15\text{dB}$
6	Rejection	$\geq 20\text{dB}@CH2\&3$	$\geq 20\text{dB}@CH1\&3$	$\geq 20\text{dB}@CH1\&2$
7	Input power	20W CW (per channel)		
8	Operation temperature range	-40 to +85°C		
9	Impedance	50Ω		

2.2 The simulation curve

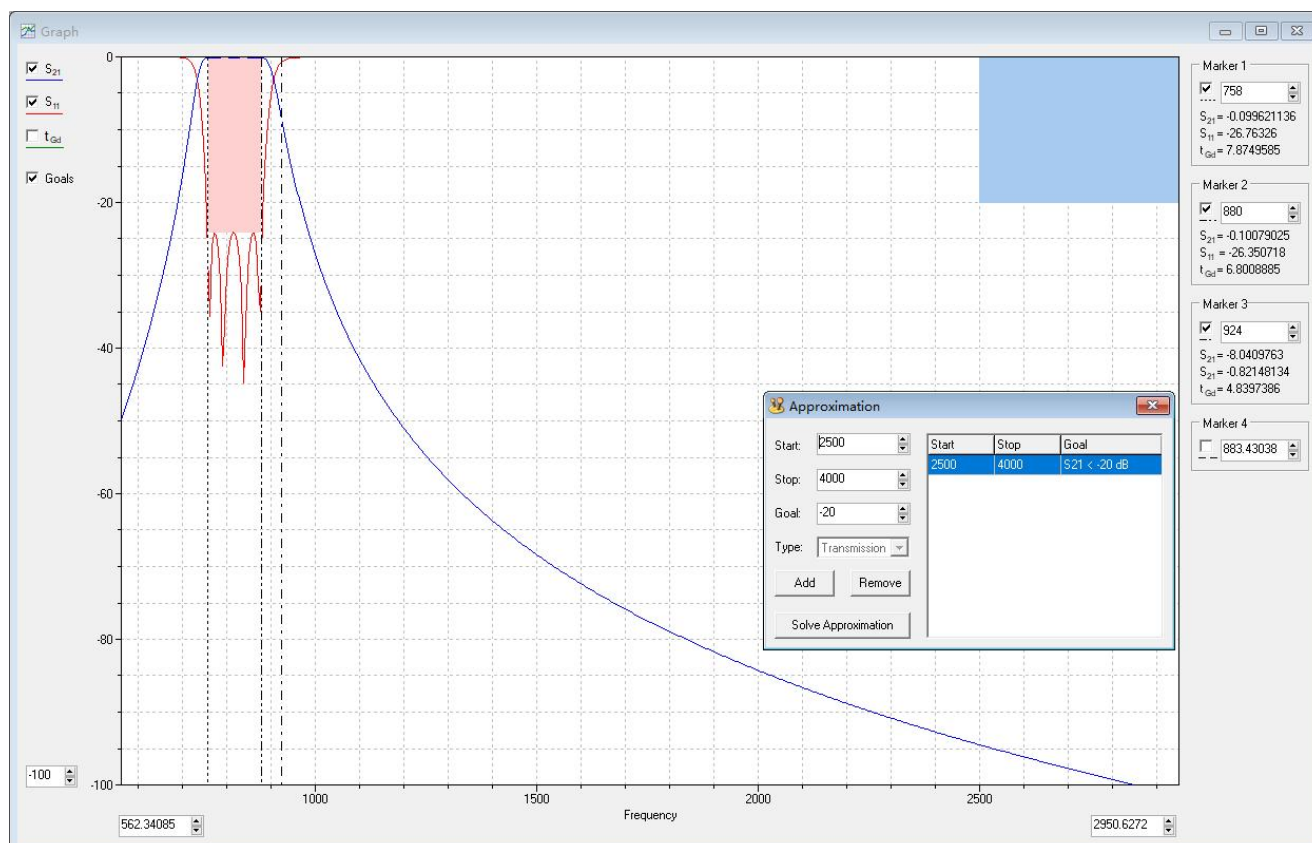


Figure 2 The simulation curve of the CH1

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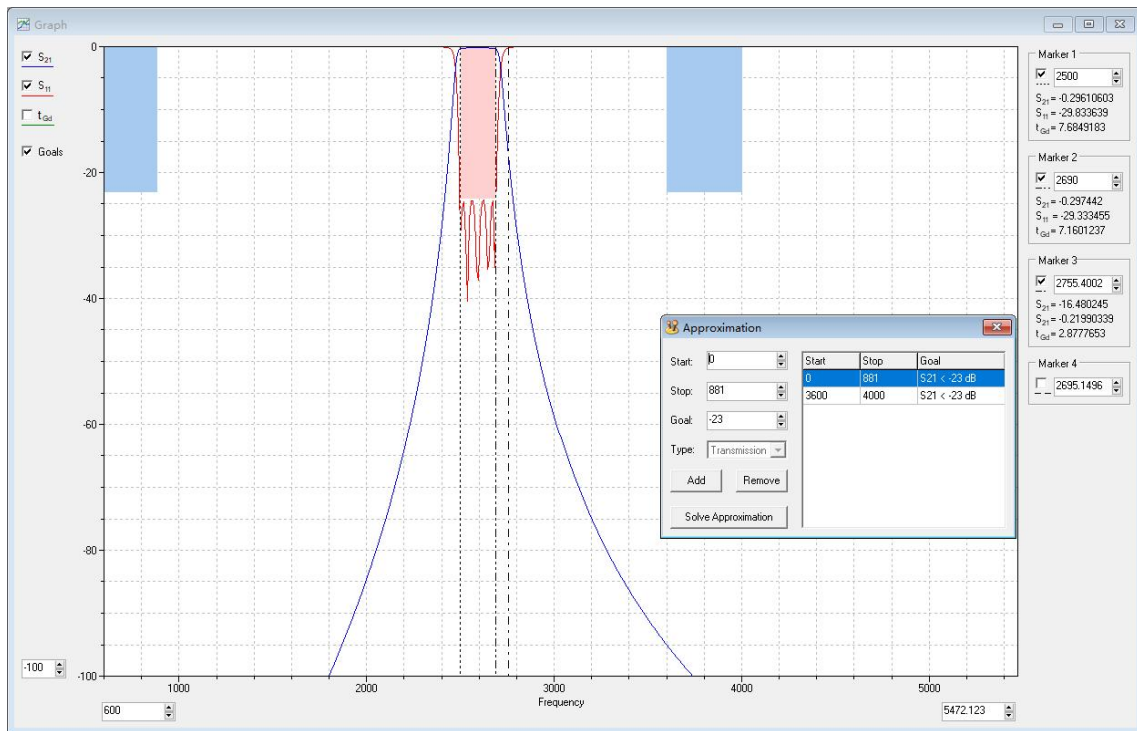


Figure 3 The simulation curve of the CH2

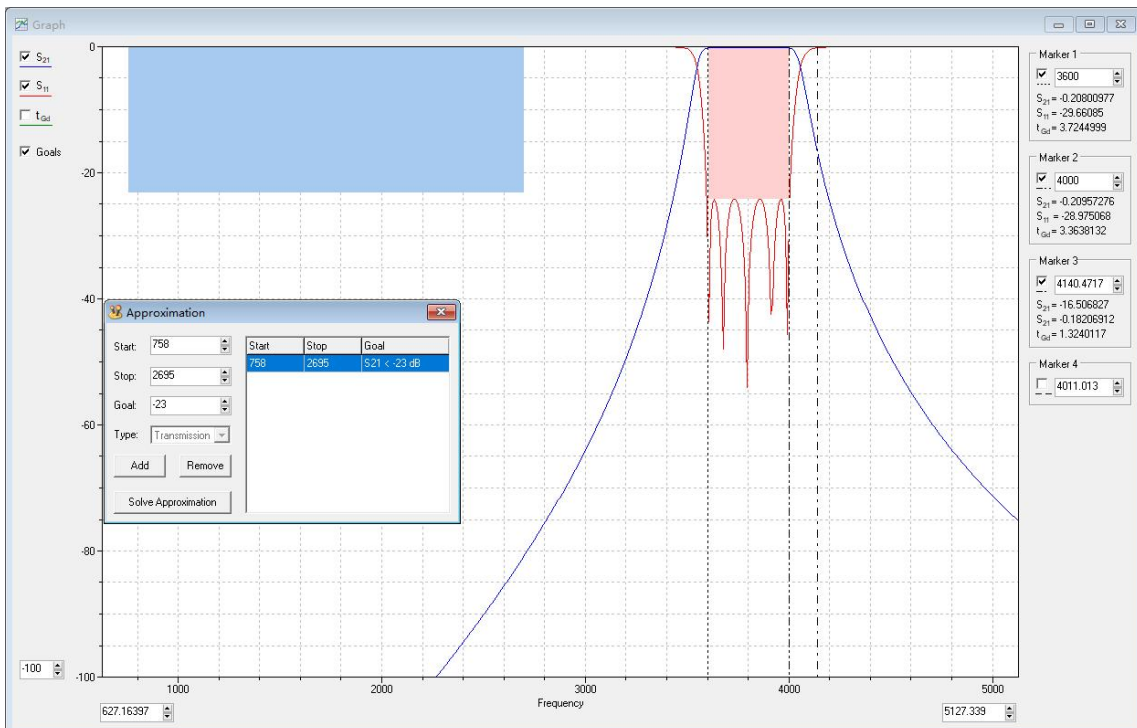


Figure 4 The simulation curve of the CH3

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