

Technical Proposal for JX-CC2-2575M3800M-60S Cavity Combiner

◆ High Performance

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2021/07/05	Wang	Created	/
V1.1	2021/07/23	Lee	Updated the dimension description	Customer request
V1.2	2021/09/03	Lee	Updated the electrical specifications	JingXin request

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1. Mechanical specification

Table 1 Mechanical specifications @ JX-CC2-2575M3800M-60S

Dimension	L x W x H: 91mm x 59mm x 24.5mm (29.0mm Max)
Port connectors	SMA-Female
Finish	Black (Paint spraying)
Mounting	4- ϕ 3.2 through
Application	Indoor
Notes	Material shall be RoHS 6/6

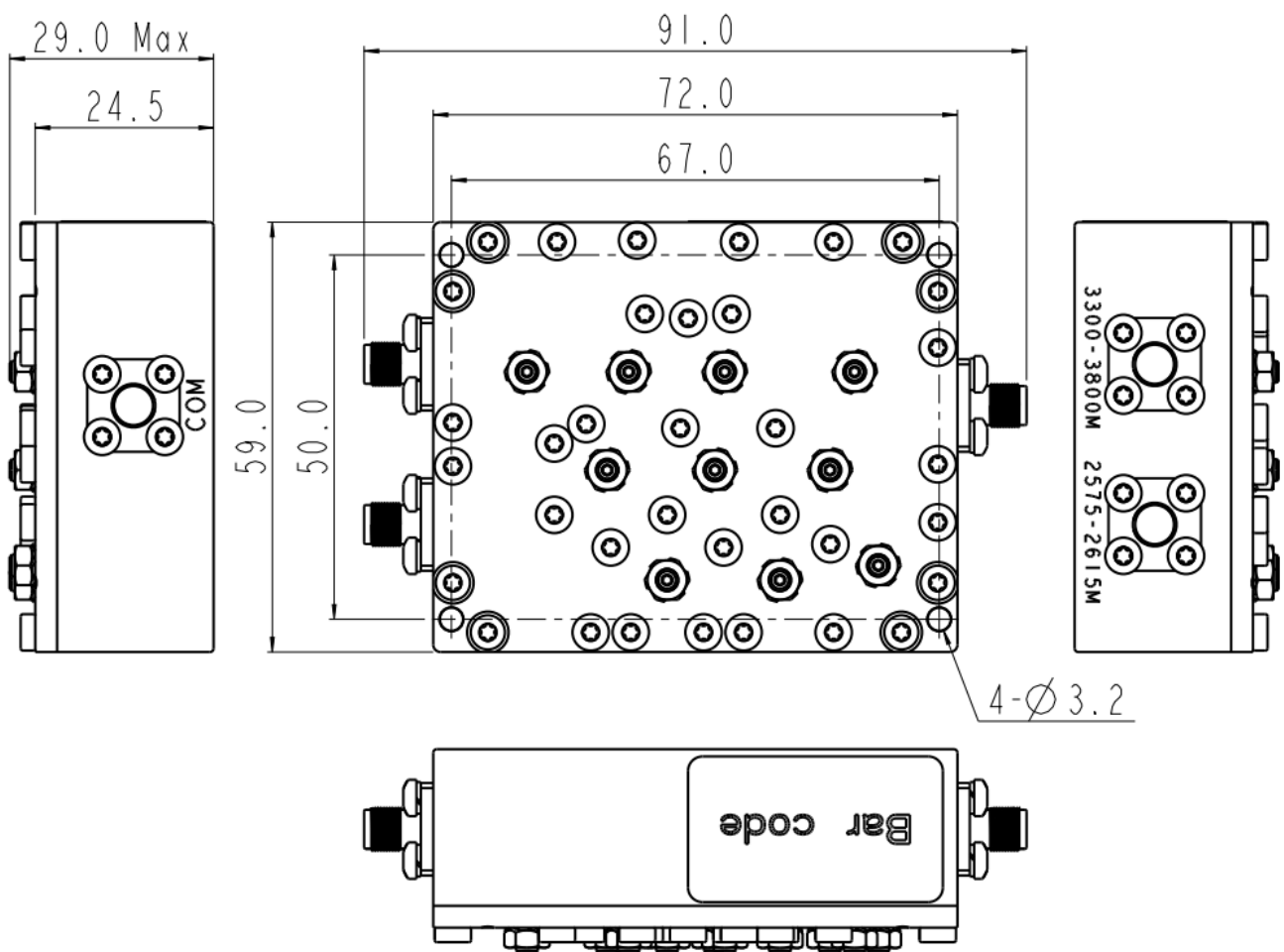


Figure 1 JX-CC2-2575M3800M-60S front panel layout

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2. Electrical analysis

2.1 Electrical specification

Table 2 Electrical specifications @ JX-CC2-2575M3800M-60S

Item	Parameter	Input port1	Input port2
1	Frequency range	2575-2615MHz	3300-3800MHz
2	Return loss	$\geq 18\text{dB}$	$\geq 18\text{dB}$
3	Insertion loss	$\leq 1.5\text{dB}$ @ at 2595MHz $\leq 2.6\text{dB}$ @ normal temp $\leq 3.1\text{dB}$ @ -40 to +85°C	$\leq 0.8\text{dB}$
4	Ripple	$\leq 1.3\text{dB}$ @ normal temp $\leq 1.6\text{dB}$ @ -40 to +85°C	$\leq 0.8\text{dB}$
5	Rejection	$\geq 40\text{dB}$ @ DC-2565MHz $\geq 40\text{dB}$ @ 2625-3800MHz	$\geq 50\text{dB}$ @ DC-2700MHz
6	Input port power	30W Average	
7	Common port power	50W Average	
8	Impedance	50Ω	
9	Temperature range	-40°C to +85°C	

2.2 The simulation curve

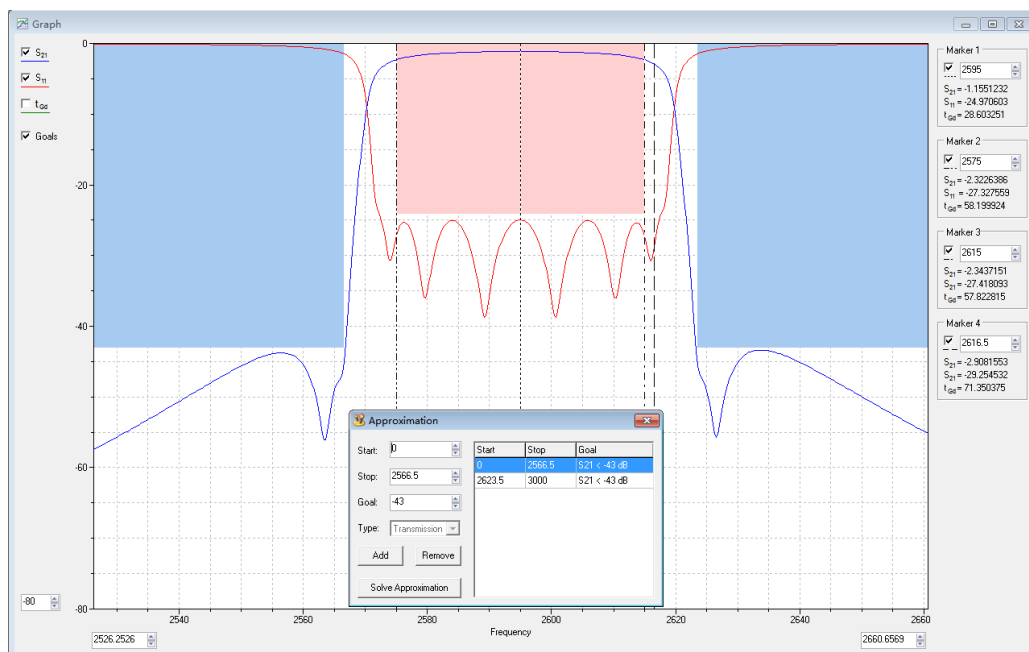


Figure 2 The simulation curve of the input port1

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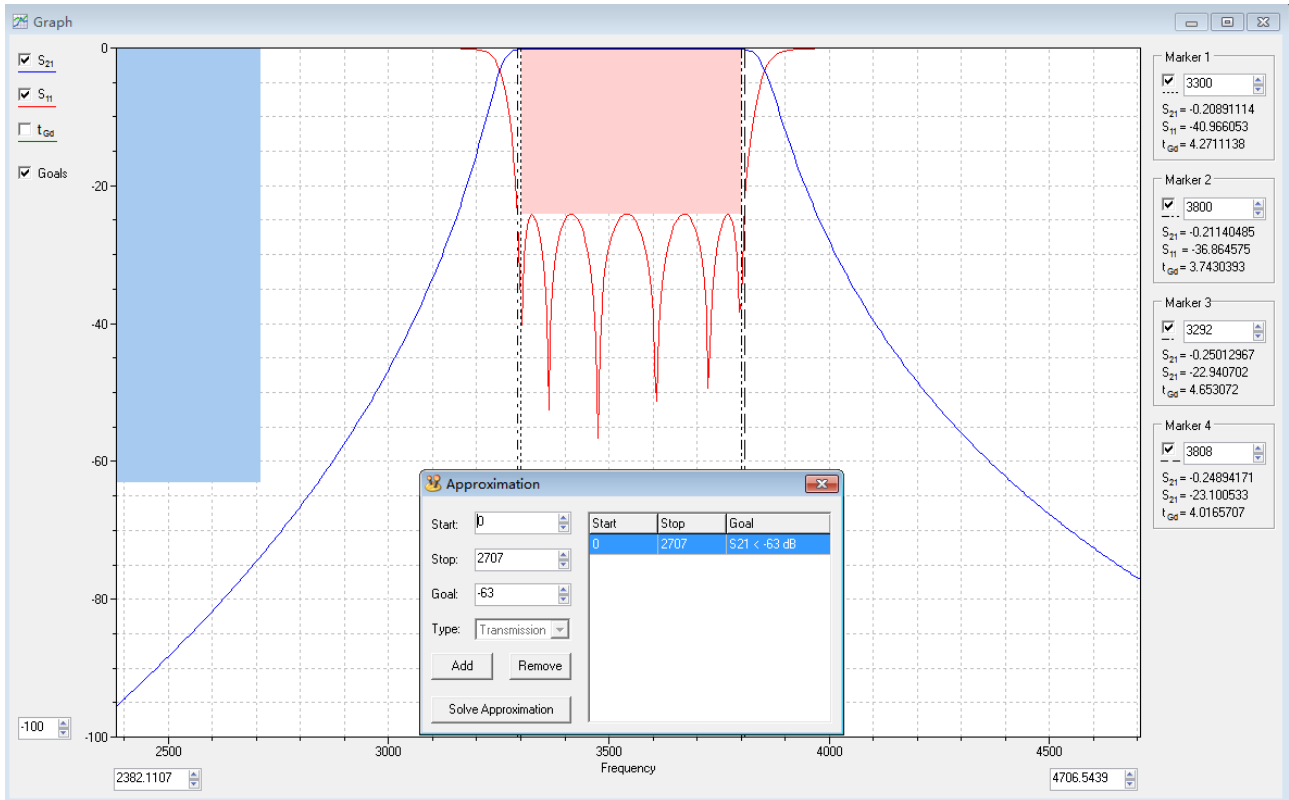


Figure 3 The simulation curve of the input port2

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