

Technical proposal for JX-LCC5-758M2170M-S20 LC Combiner

- ◆ Low Insertion Loss
- ◆ Small Volume
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/06/19	Lin liqun	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-LCC5-758M2170M-S20

Dimension	LxWxH:70mm x 40mm x 14mm
Connectors	SMA-Female
Finish	Conductive oxidation
Notes	Material shall be RoHS 6/6

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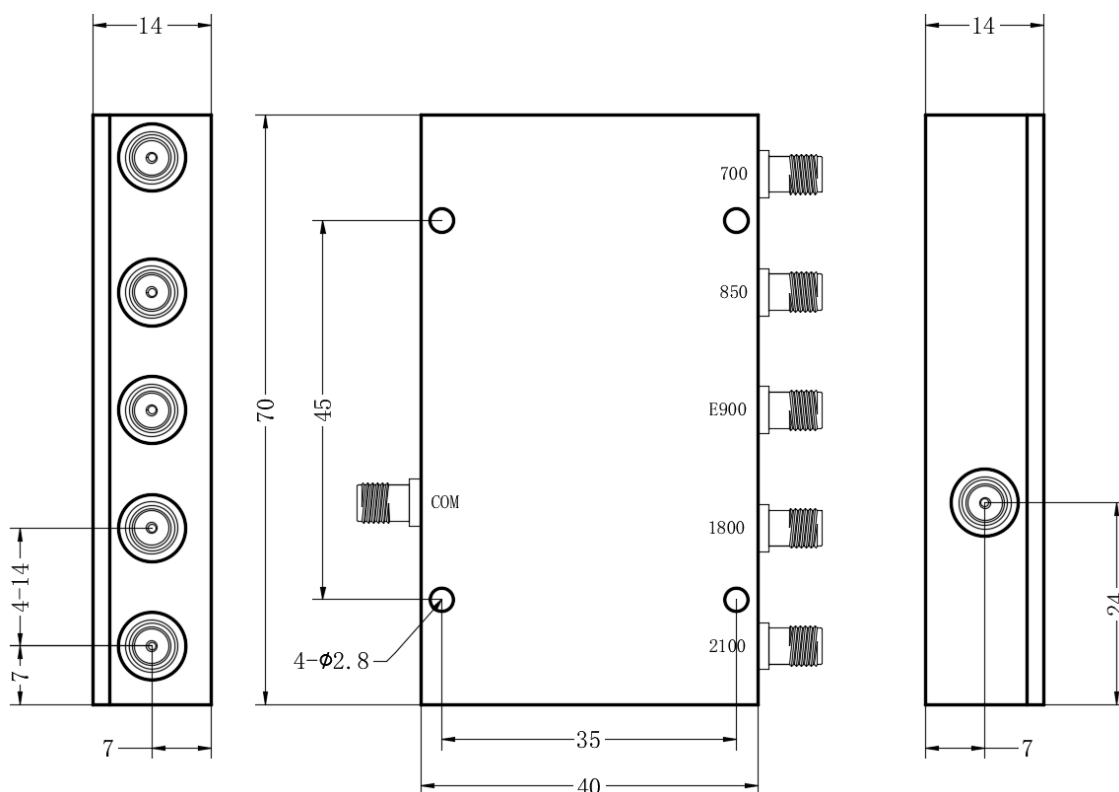


Figure 1 JX-LCC5-758M2170M-S20 front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-LCC5-758M2170M-S20

Item	Parameter	Specifications				
		700	850	E900	1800	2100
1	Port	700	850	E900	1800	2100
2	Central Frequency	780.5MHz	875MHz	942.5MHz	1847.5MHz	2140MHz
3	Bandwidth	45MHz	10MHz	35MHz	75MHz	60MHz
4	Insertion loss	≤3.0dB	≤3.0dB	≤3.0dB	≤2.0dB	≤2.0dB
5	Ripple	≤1.0dB				
6	Return loss	≥15dB				
7	Isolation	≥20dB				
8	Power	1W				
9	Impedance	50 Ω				

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2.2 The simulation curve

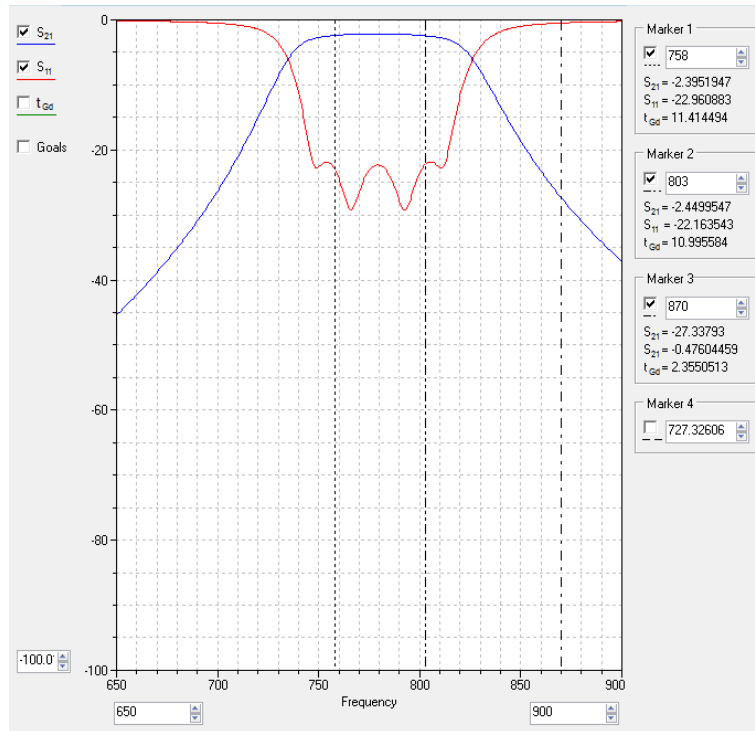


Figure 2 The simulation curve of the port 700

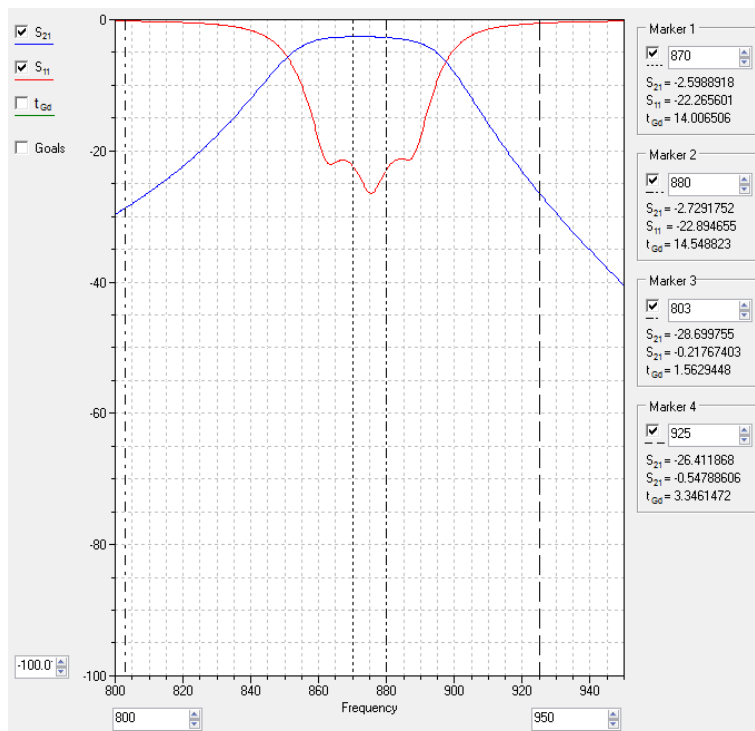


Figure 3 The simulation curve of the port 850

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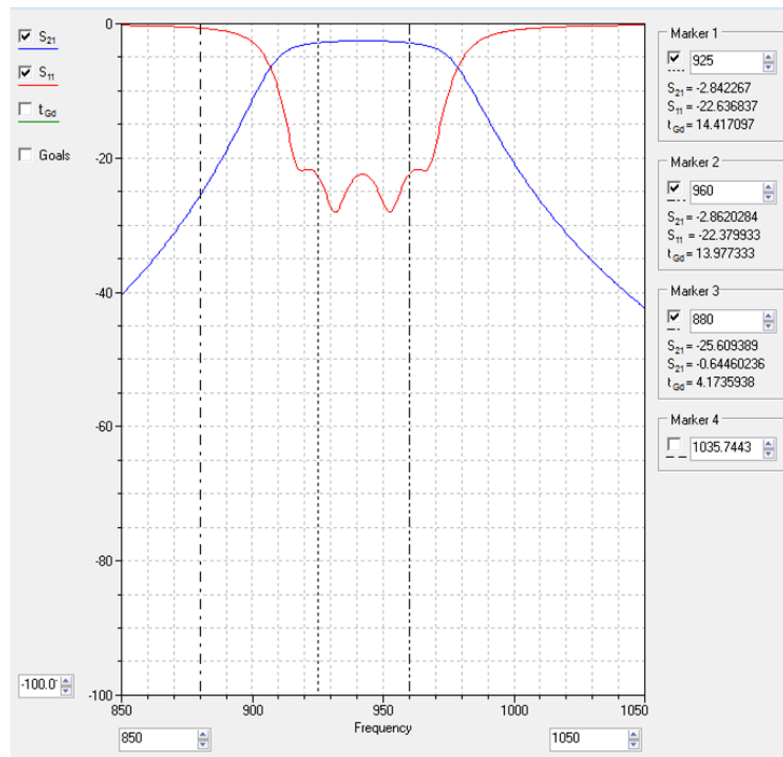


Figure 4 The simulation curve of the port E900

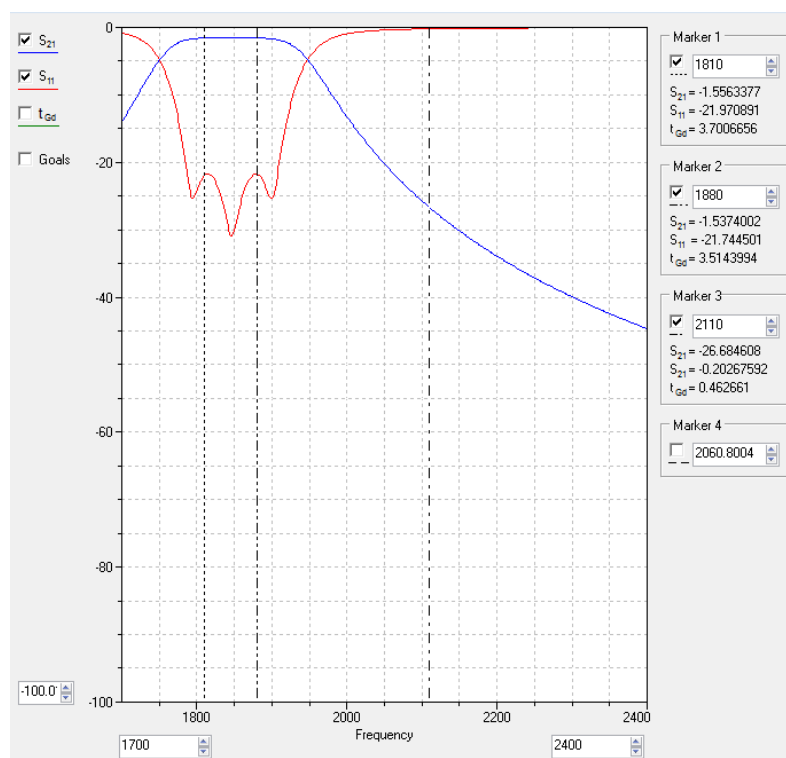


Figure 5 The simulation curve of the port 1800

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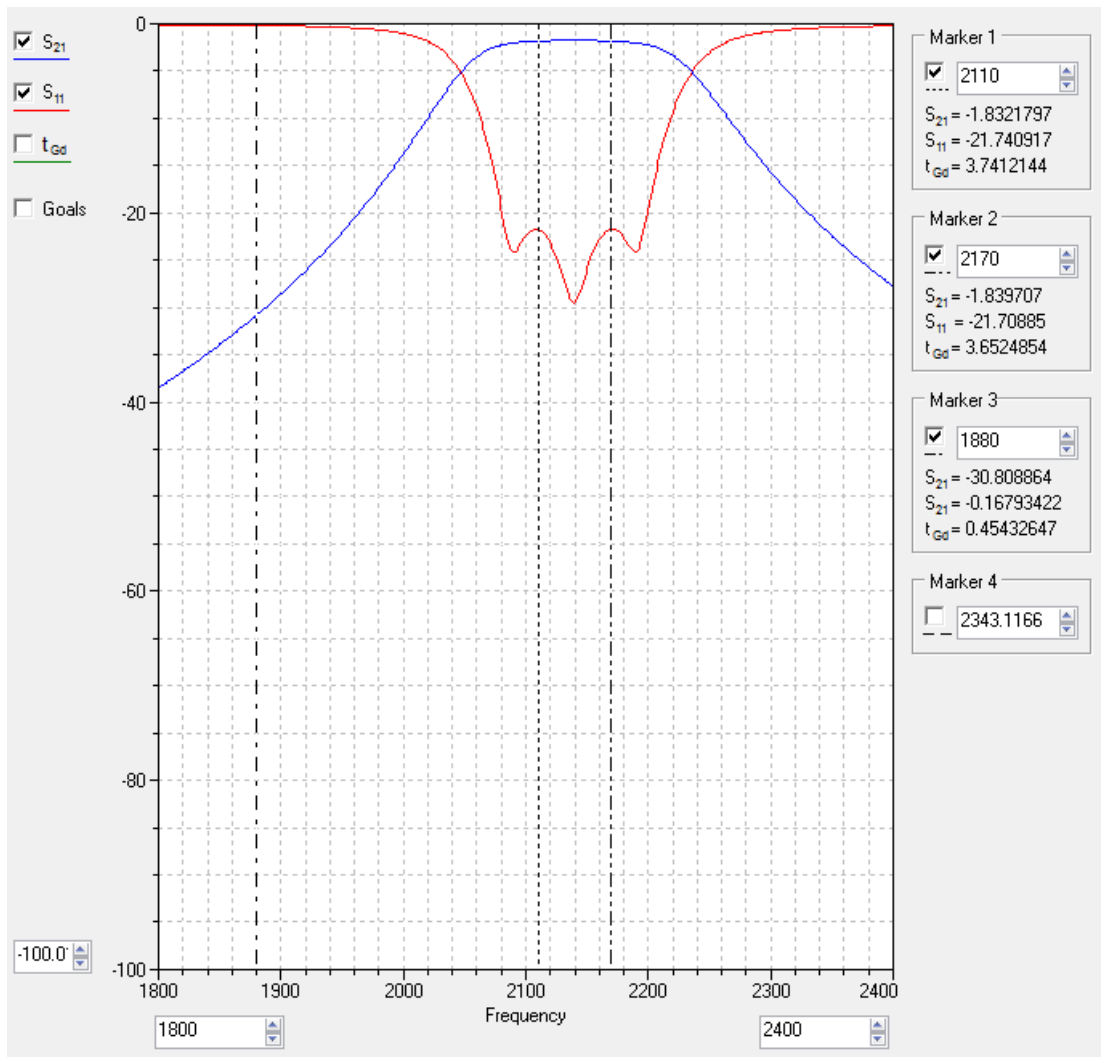


Figure 6 The simulation curve of the port 2100

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