

Technical Proposal for JX-LCC2-140M3500M-4310F40 LC Combiner

◆ Low Insertion Loss

◆ Small Volume

◆ High Performance

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/05/19	Lee	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications

Port connectors	4.3-10 / Female
Dimension	L x W x H: 65mm x 78mm x 30mm
Finish	Conductive oxidation of aluminum alloy
Environmental	Indoor application
Notes	Material shall be RoHS 6/6

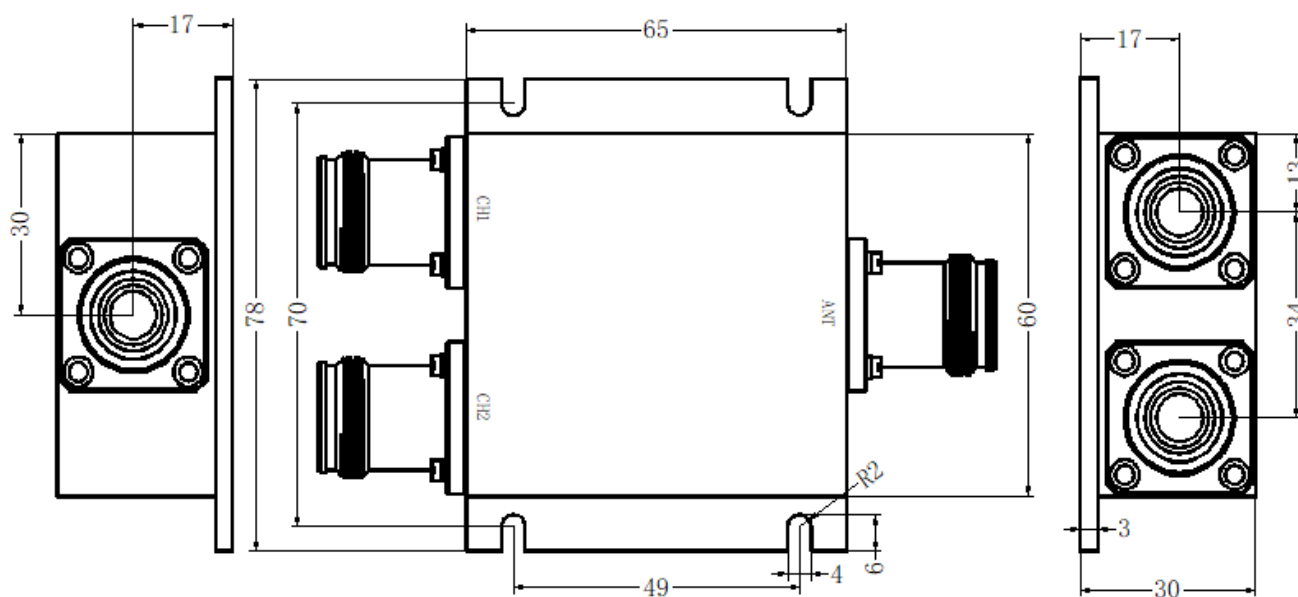


Figure 1 JX-LCC2-140M3500M-4310F40 front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications

Item	Parameter	CH1	CH2
1	Frequency range	140-180MHz	380-3500MHz
2	Insertion loss	≤1.0dB	≤1.0dB
3	In-band ripple	≤0.6dB	≤0.6dB
4	Rejection	≥40dB@380-3500MHz	≥40dB@140-180MHz
5	Isolation	≥40dB@140-180MHz&380-3500MHz	
6	Return loss	≥15dB	

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7	Impedance	50Ω
8	Power	20W
9	Temperature Range	-25°C to +65°C

2.2 The simulation curve

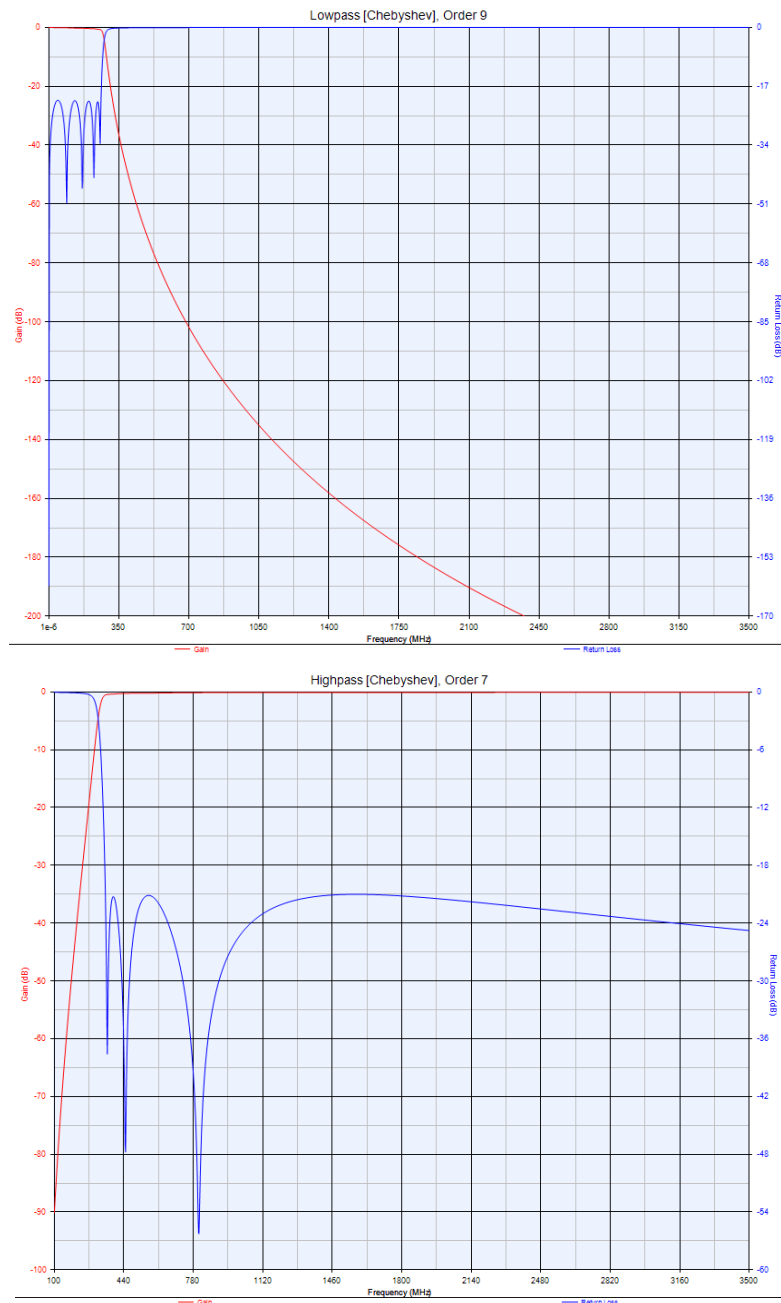


Figure 2 The simulation curve of the combiner

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