

Technical Proposal for JX-CC2-1427M3800M-4310F Cavity Combiner

- ◆ 5G Combiner
- ◆ Low PIM
- ◆ Ultra Wide Bandwidth
- ◆ Low Insertion Loss
- ◆ Outdoor / Indoor Use
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/08/28	Lee	Created	/
V1.1	2019/09/19	Lee	Updated the specifications	JingXin request
V1.2	2019/09/19	Lee	Increased the PIM3 with 2600MHz	JingXin request

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CC2-1427M3800M-4310F

Item	Parameter	Specification
1	Dimension	L x W x H: 122mm x 70mm x 35mm (Mounting bracket is not included)
2	Port connectors	4.3-10 / Female
3	Finish	Gray, Akzo Nobel RA7035, Powder spraying
4	Installation	Board / Wall / Rod
5	IP protection	IP67
6	Salt mist	EN 60068-2-11 / Ka Cass ST4
7	atm	65 KPa
8	Shock	Sawtooth pulse acc. AREMA 11.5.1 / 20G 11ms
9	Vibration	5G 5Hz to 200Hz, 2.5G 5Hz to 2000Hz
10	Humidity	95%RH 2cycles 2 24H 25°C to 55°C according to EN50155:2017 cyclic damp heat test (13.4.7)
11	Notes	Material shall be RoHS 6/6

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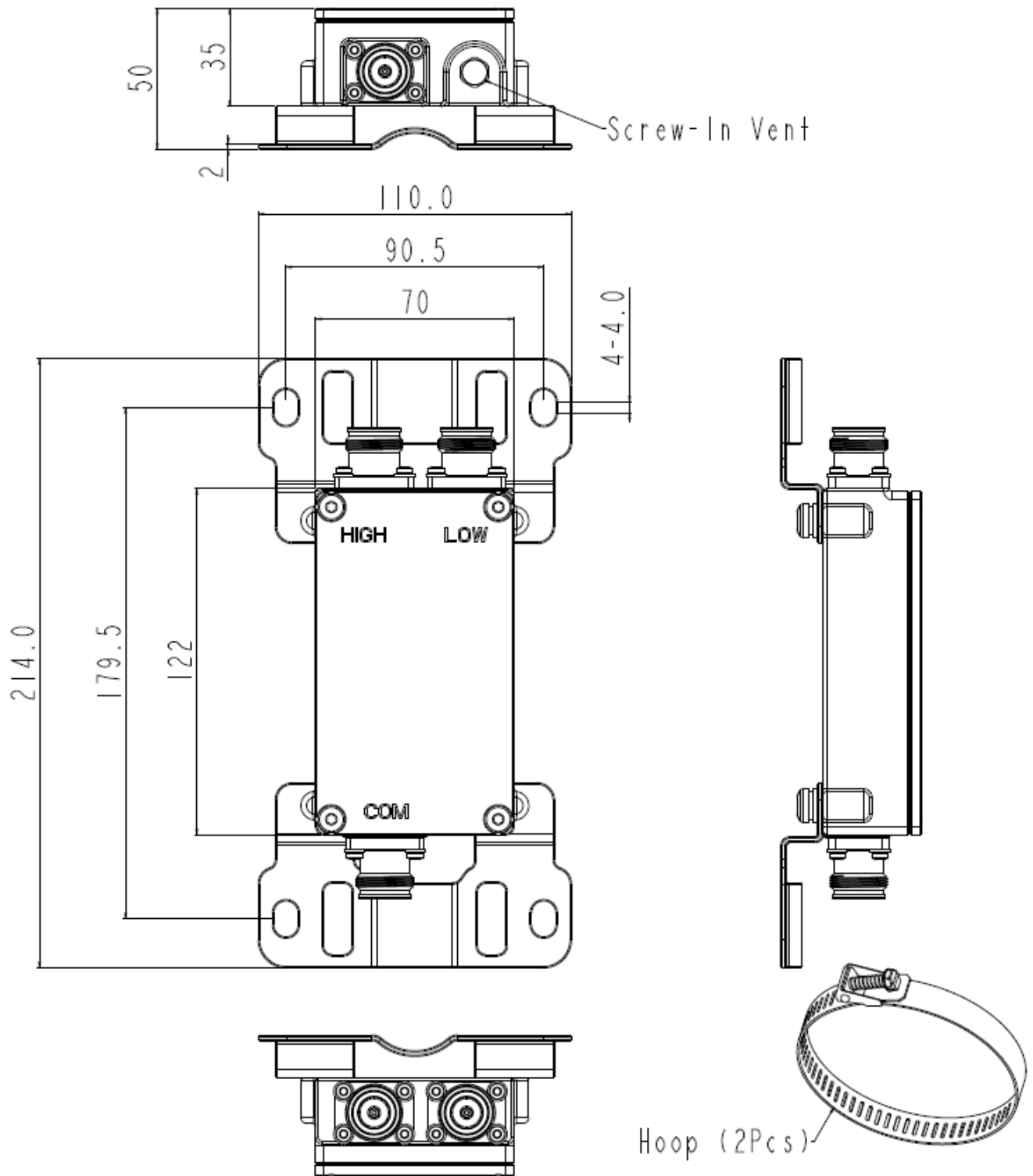


Figure 1 JX-CC2-1427M3800M-4310F front panel layout

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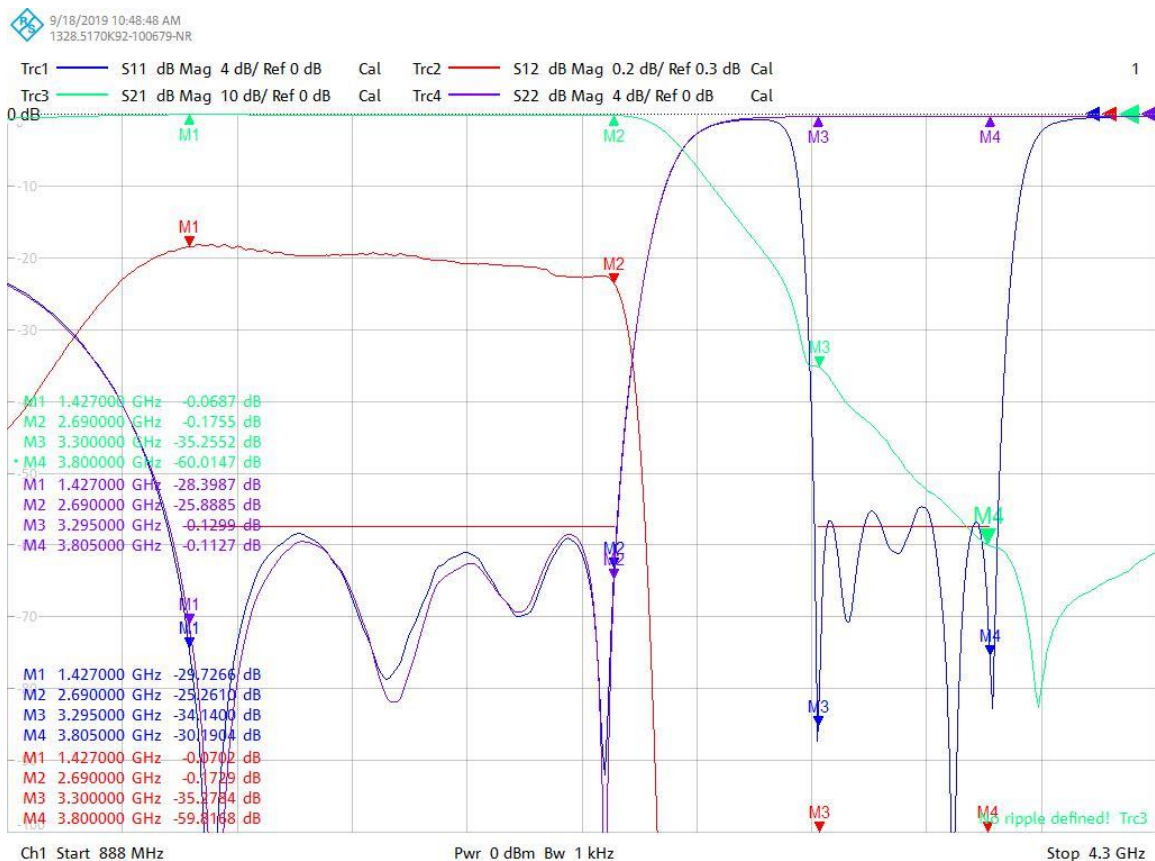
2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CC2-1427M3800M-4310F

Item	Parameter	LOW	HIGH
1	Frequency range	1427-2690MHz	3300-3800MHz
2	Return loss	≥20dB	≥20dB
3	Insertion loss	≤0.25dB	≤0.25dB
4	Isolation	≥60dB@1427-2690MHz ≥30dB@3300-3800MHz	
5	Average power	100W	
6	Peak power	1000W	
7	PIM	≤-156dBc@2*43dBm	
8	Temperature range	-40°C to +70°C	

2.2 The test curve



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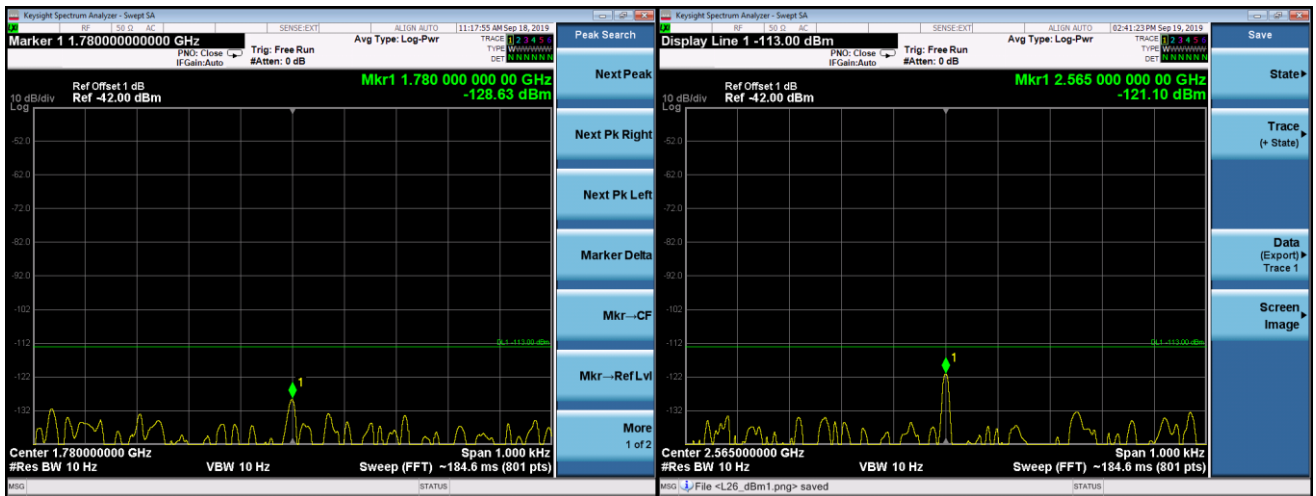
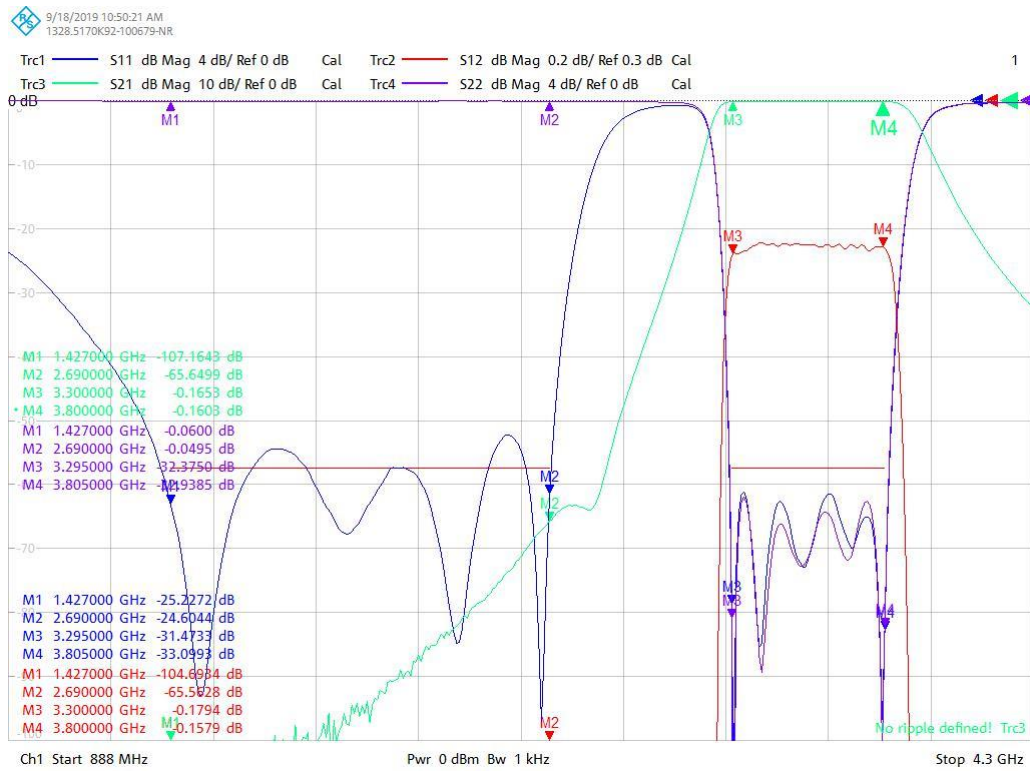


Figure 2 The sample test curve of the combiner

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