

# Technical Proposal for JX-LCC2-87.5M600M-40N LC Combiner

◆ Low Insertion Loss

◆ Small Volume

◆ High Performance

◆ High Reliability

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/04/16	Lee	Created	/

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## 1. Mechanical layout

Table 1 Mechanical specifications

Port connectors	N-Female
Dimension	L x W x H: 90mm x 86mm x 28mm
Finish	Conductive oxidation of aluminum
Environmental	Indoor Application
Notes	Material shall be RoHS 6/6

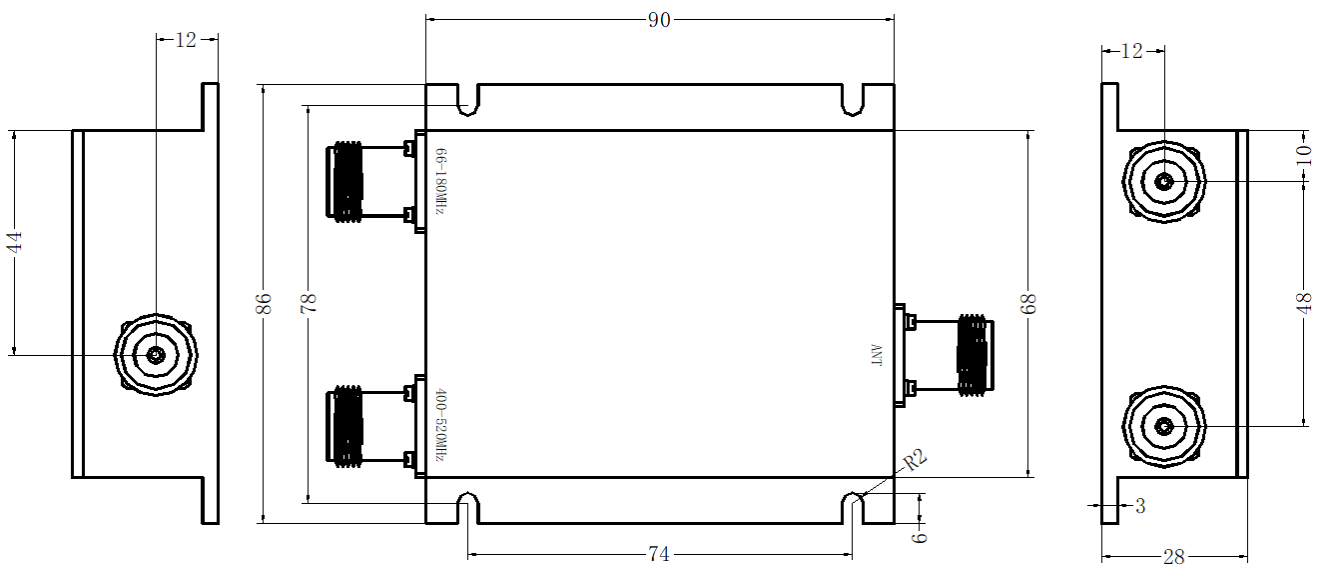


Figure 1 JX-LCC2-87.5M600M-40N front panel layout

## 2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	87.5-108MHz	470-600MHz
1	Insertion loss	$\leq 1.0\text{dB}$	$\leq 1.0\text{dB}$
2	In-band ripple	$\leq 0.6\text{dB}$	$\leq 0.6\text{dB}$
3	Rejection	$\geq 40\text{dB}@470-600\text{MHz}$	$\geq 40\text{dB}@87.5-108\text{MHz}$
4	Isolation	$\geq 40\text{dB}@87.5-108\text{MHz} \& 470-600\text{MHz}$	
5	Return loss	$\geq 15\text{dB}$	
6	Impedance	50 $\Omega$	
7	Power	50W	200W
8	Temperature Range	-25 to +65 $^{\circ}\text{C}$	

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