

# Technical Proposal for JX-LCF1-155M245M-S20 LC Filter

- ◆ High Performance
- ◆ High Reliability

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/09/24	Wang	Created	/

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## 1. Mechanical specification

Table 1 Mechanical specifications @ JX-LCF1-155M245M-S20

Dimension	L x W x H: 40.4mm x 12mm x 10mm
Connectors	SMA-Female
Material	Copper
Finish	Black
Notes	Material shall be RoHS 6/6

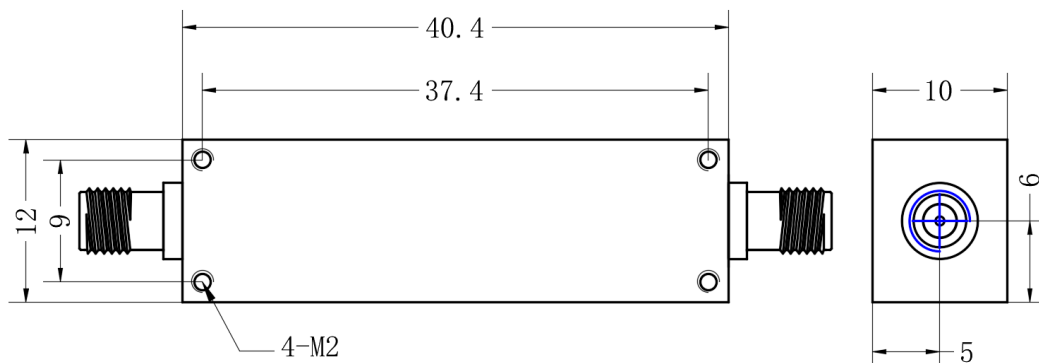


Figure 1 JX-LCF1-155M245M-S20 front panel layout

## 2. Electrical analysis

### 2.1 Electrical specification

Table 2 Electrical specifications @ JX-LCF1-155M245M-S20

Item	Parameter	Specifications		
1	Frequency range	155M-245MHz		
2	Insertion loss	≤1.5dB		
3	Return loss	≥14dB		
4	Ripple in band	≤0.4dB		
5	Phase ripple	Every 7MHz in band	155-245MHz	
		≤4°	≤30°	
6	Rejection	≥20dBc@DC-40MHz	≥20dBc@320-480M Hz	≥60dBc@480-1000M Hz
7	Impedance	50Ω		
8	Operating temperature	0°C to +40°C		
9	Storage temperature	-20°C to +60°C		

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## 2.2 The simulation curve

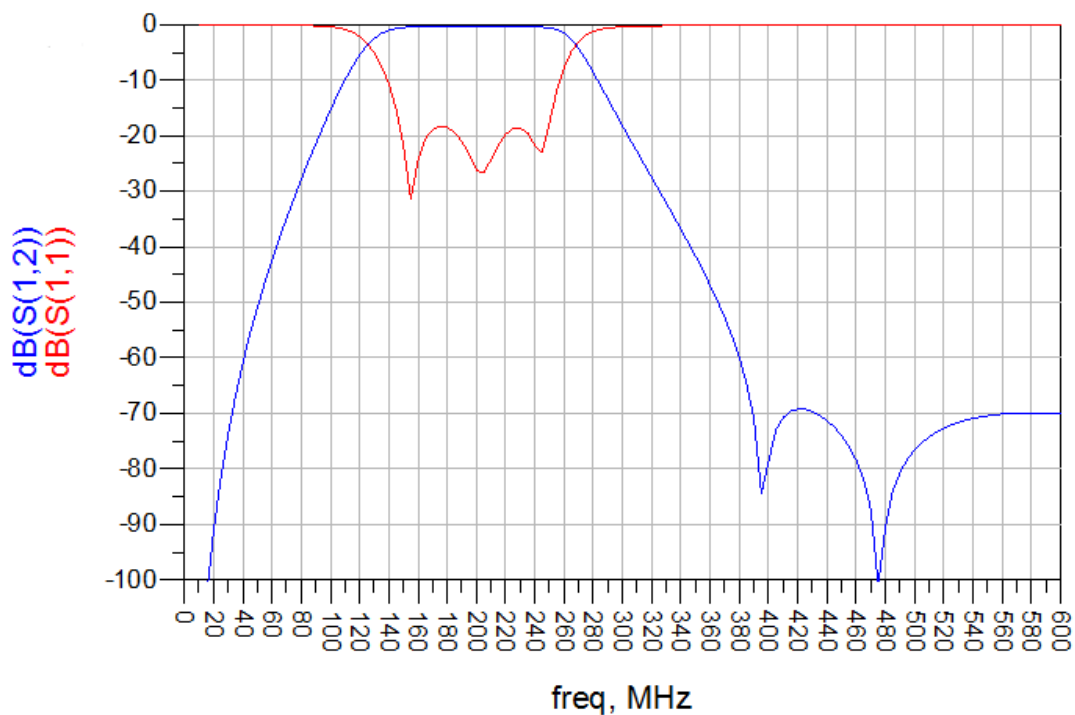


Figure 2 The simulation curve of the filter

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