

Technical proposal for JX-LCF1-200M500M-50SF LC Filter

◆ High Performance

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2022/01/27	Vivian	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications

Dimension	L x W x H: 50mm x 20mm x 15mm
Connectors	SMA-Female
Finish	Conductive oxidation
Notes	Material shall be RoHS 6/6

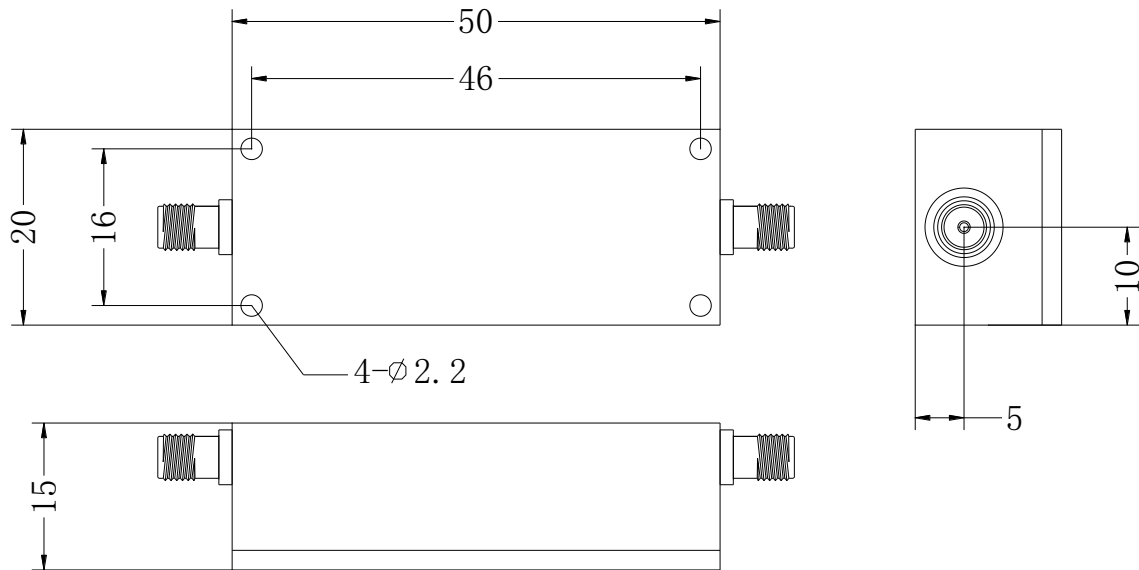


Figure 1 JX-LCF1-200M500M-50SF front panel layout

2. Electrical analysis

2.1 Electrical specification

Table 2 Electrical specifications

Item	Parameter	Specifications
1	Frequency range	200-500MHz
2	Insertion loss	$\leq 0.7\text{dB}$
3	Rejection	$\geq 30\text{dBc}@DC-170\text{MHz}$ $\geq 30\text{dBc}@700-2000\text{MHz}$
4	Return loss	$\geq 14\text{dB}$
5	Operational Temperature	$-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$
6	Storage Temperature	$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
7	Impedance	50Ω
8	Power	+30dBm max

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2.2 The simulation curve

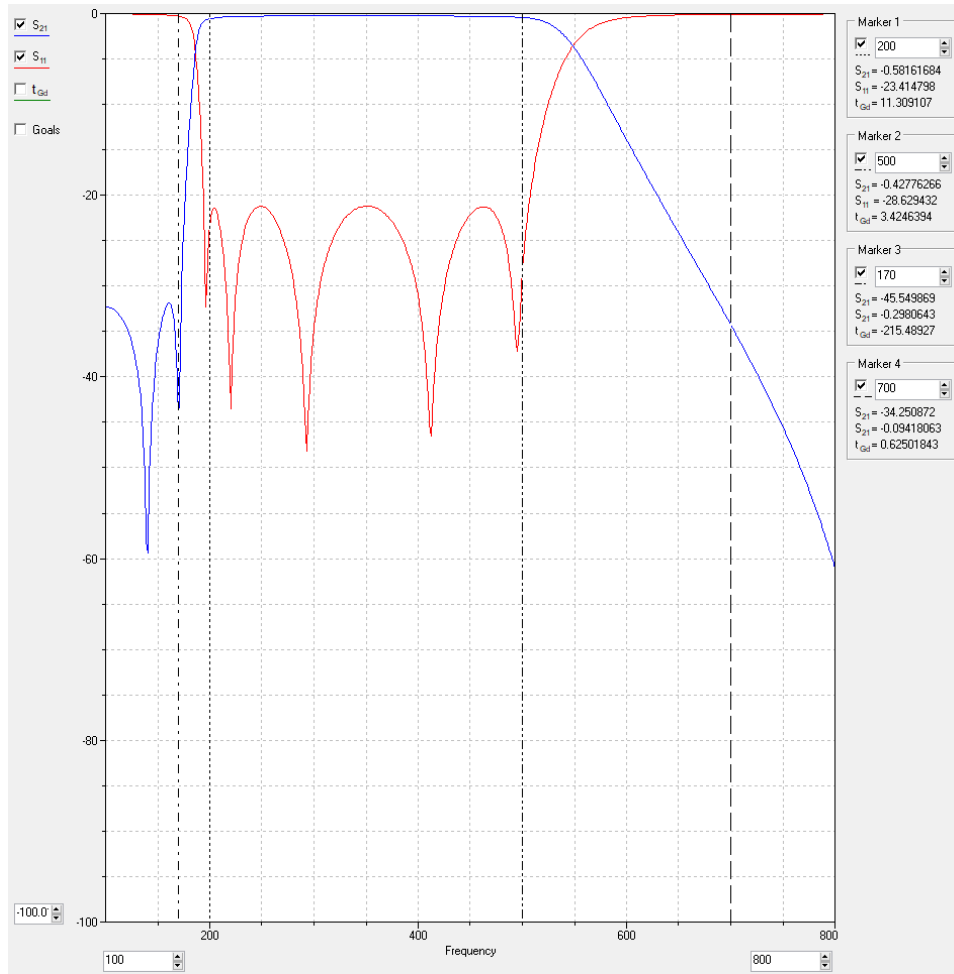


Figure 2 The simulation curve of the Filter

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