

Technical Proposal for JX-CF1-7.9G8.4G-S50 Cavity Filter

- ◆ High Performance**
- ◆ High Reliability**
- ◆ Low Insertion Loss**
- ◆ Small Volume**

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/11/28	Lee	Created	/
V1.1	2019/12/02	Lee	Updated the layout and insertion loss	Customer request
V1.2	2019/12/04	Lee	Updated the layout	Customer request

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-7.9G8.4G-S50

Item	Parameter	Specification
1	Dimension	L x W x H: 91mm x 42mm x 13.5mm (18mm Max)
2	Port connectors	SMA-Female
3	Finish	Silver
4	Notes	Material shall be RoHS 6/6

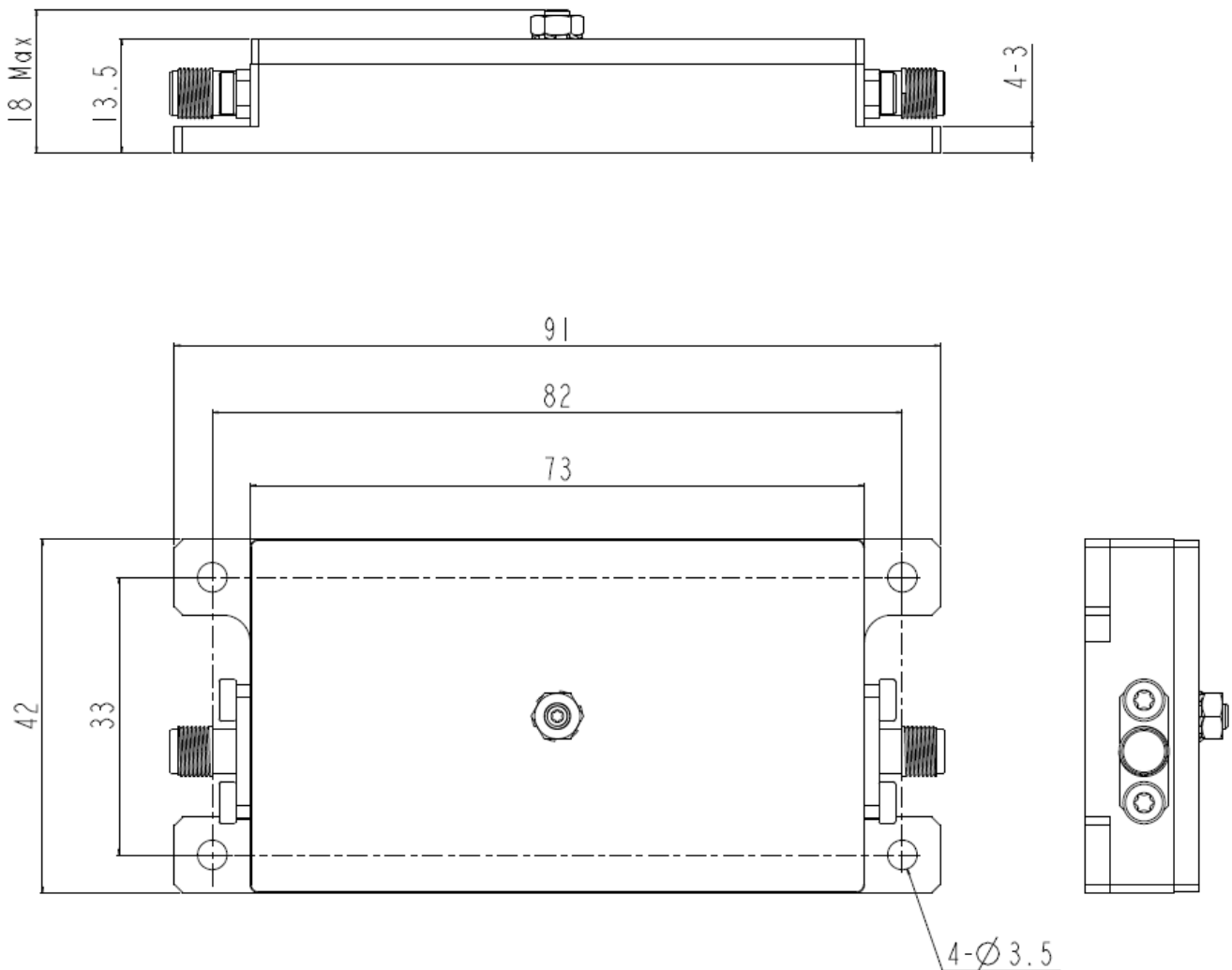


Figure 1 JX-CF1-7.9G8.4G-S50 front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-7.9G8.4G-S50

Item	Parameter	Specification
1	Frequency range	7.9-8.4GHz
2	Insertion loss	$\leq 0.5\text{dB}$
3	Return loss	$\geq 15\text{dB}$
4	Rejection	$\geq 50\text{dB}$ @ 7.25-7.75GHz
5	Power	$\leq 30\text{W}$ (CW)

2.2 The simulation curve

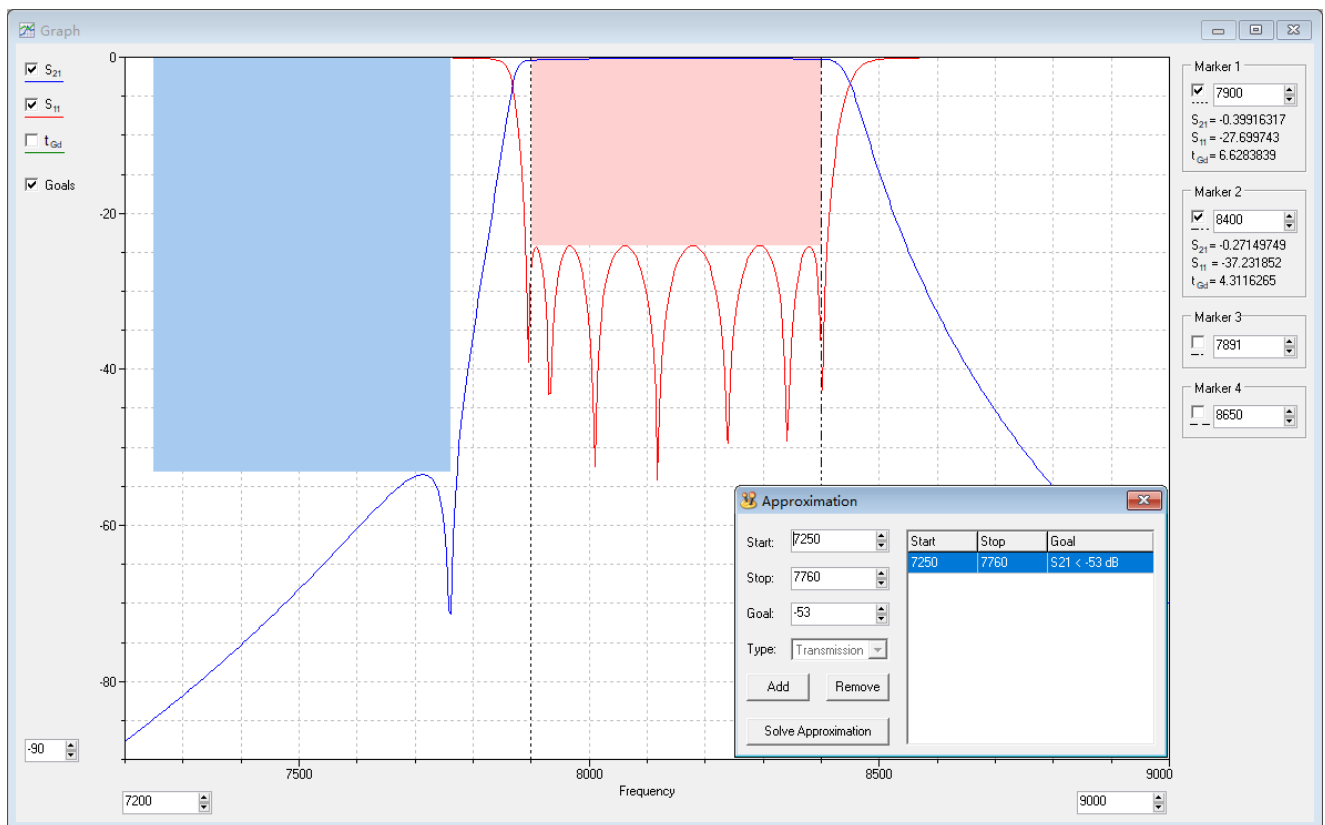


Figure 2 The simulation curve of the Filter

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