

Technical proposal for JX-CF1-18G40G-292F Bandpass Filter

- ◆ Low Insertion Loss
- ◆ Small Volume

- ◆ High Rejection
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/11/14	Lee	Created	/
V1.1	2019/11/15	Lee	Detachable connector	Customer request
V1.2	2019/11/29	Lee	Updated the mechanical layout	Customer request
V1.3	2019/12/20	Lee	Updated the mechanical layout: 2.92-Female → 2.92-Female / 2.92-Male	Customer request
V1.4	2019/12/23	Lee	Updated the mechanical layout	Customer request
V1.5	2019/12/30	Lee	Finish: Black paint → Silver	JingXin request
V1.6	2020/03/13	Lee	Updated the VSWR and rejection	JingXin request
V1.7	2020/04/29	Lee	Updated the VSWR and mechanical layout	JingXin request

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-18G40G-292F

Dimension	LxWxH: 68.4mm x 15mm x 12.7mm	
Connectors	2.92-Female / 2.92-Male	PIN: 2- ϕ 0.3mm*1.9mm
Finish	Silver	
Vibration	6Grms/axis, 10min/axis, A total of 3axis	
Shock	20G, 11ms sawtooth wave at trailing edge, 3axis6way, 3times/way	
Notes	Material shall be RoHS 6/6	

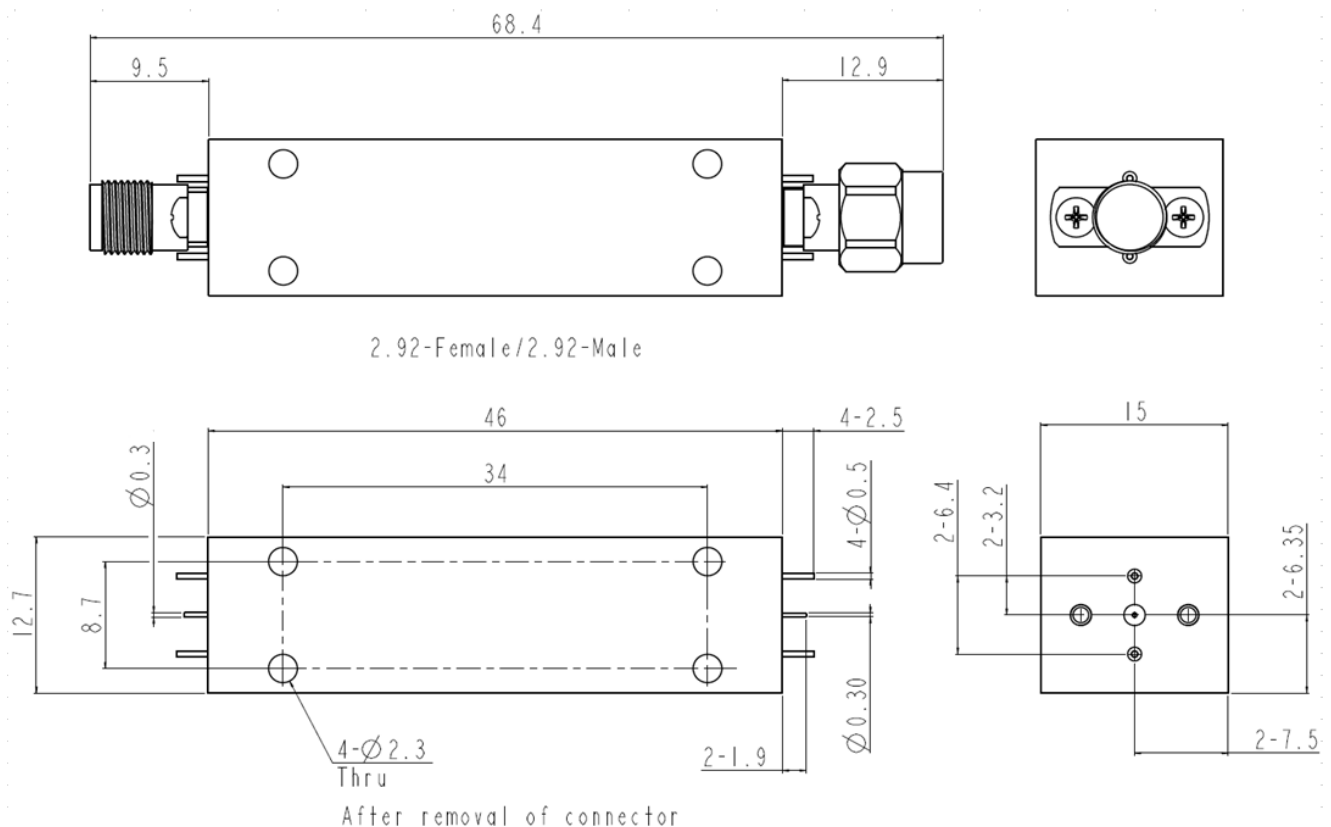


Figure 1 JX-CF1-18G40G-292F front panel layout

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2. Electrical specifications

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-18G40G-292F

Item	Parameter	Spec
1	Frequency range	18-40GHz
2	Insertion loss	≤2.0dB
3	VSWR (Normal temp)	≤1.9
	VSWR (Full temp)	≤2.0
4	Rejection	≥45dB@DC-15GHz
		≥15dB@43.5GHz
		≥20dB@46GHz
		≥35dB@48GHz
5	Impedance all ports	50ohm
6	Temperature range	-40 to +70°C

2.2 The sample test curve



Figure 2 The sample test curve of the filter

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