

Technical proposal for JX-CF1-1300M2600M-40S Cavity Filter

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

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2018/07/19	Lee	Created	/
V1.1	2018/07/23	Lee	Update the specifications	More rejection increased
V1.2	2018/08/03	Lee	Update the specifications	The sample results

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1. Mechanical layout

Table 1 Mechanical Specifications @ JX-CF1-1300M2600M-40S

Dimension	LxWxH: 184mm x 32mm x 31mm (Max 41mm)
Port connectors	SMA-Female
Finish	Black
Notes	Material shall be RoHS 6/6

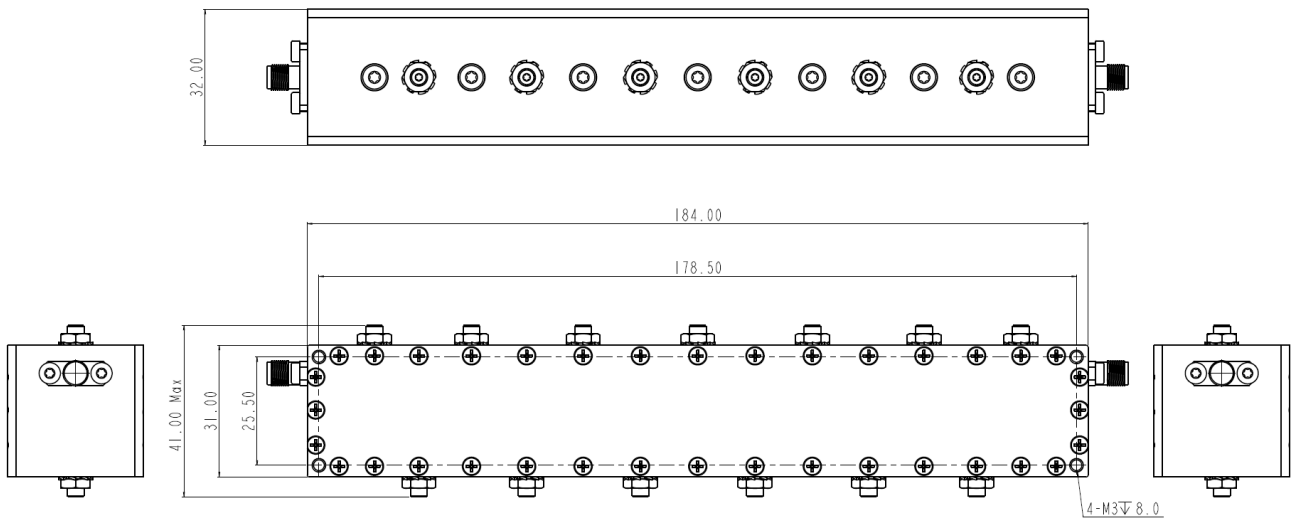


Figure 1 JX-CF1-1300M2600M-40S front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-1300M2600M-40S

Item	Frequency Range	1300-2600MHz
1	Insertion Loss	≤0.8dB
2	Ripple	≤0.5dB
3	Return Loss	≥11dB
4	Rejection	≥48dB @ DC-1100MHz ≥39dB @ 1100-1150MHz ≥25dB @ 1150-1200MHz ≥55dB @ 2800-6000MHz
5	Input Power	50W CW 100W Peak
6	Operating Temperature Range	-40°C to +70°C

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2.2 The test data

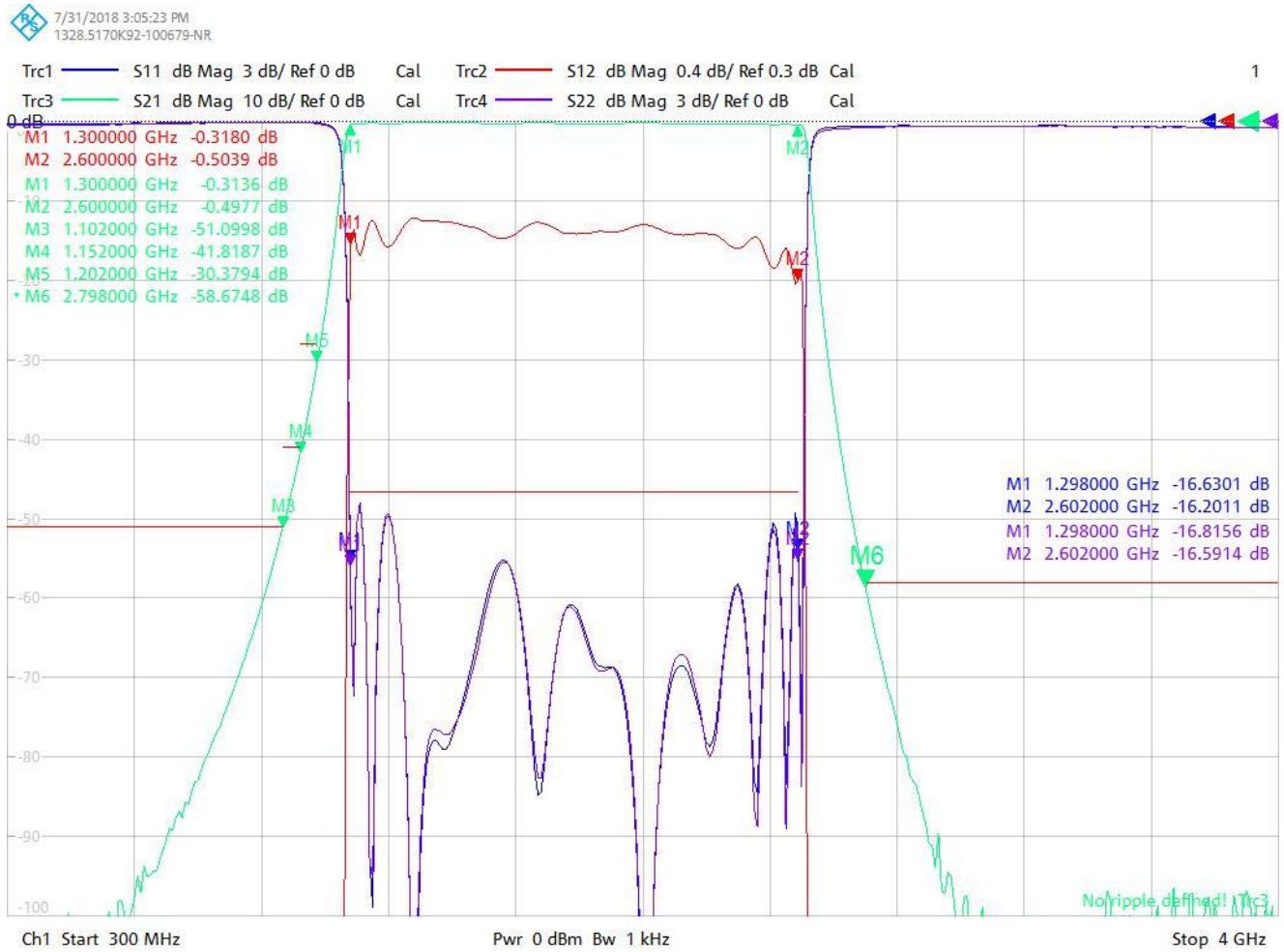


Figure 2 +25°C Temperature test curve of the Filter

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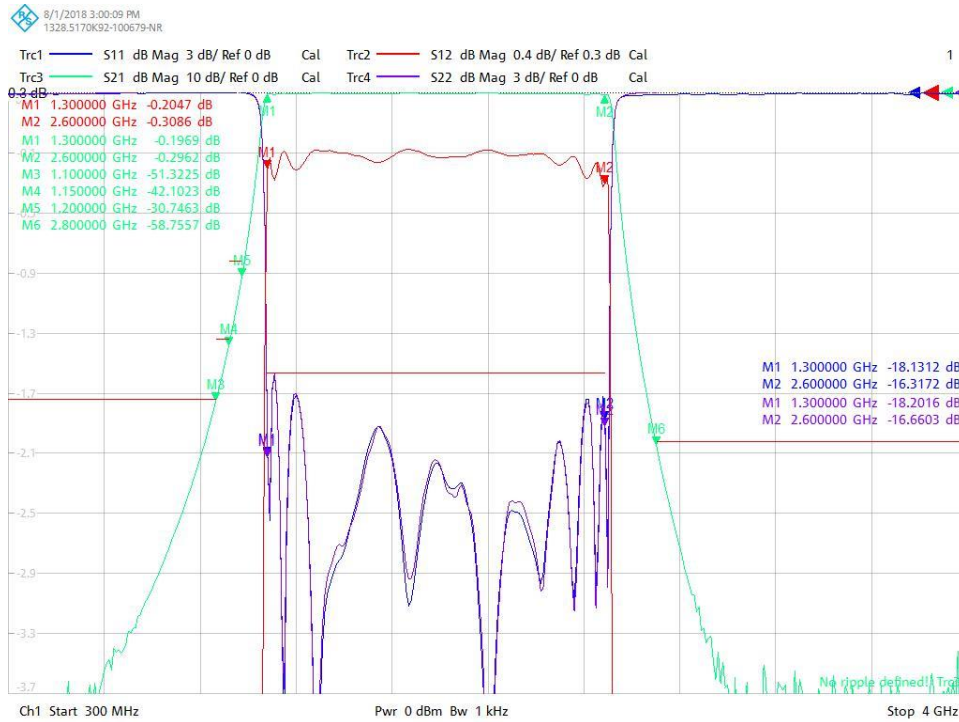


Figure 3 -40°C Temperature test curve of the Filter

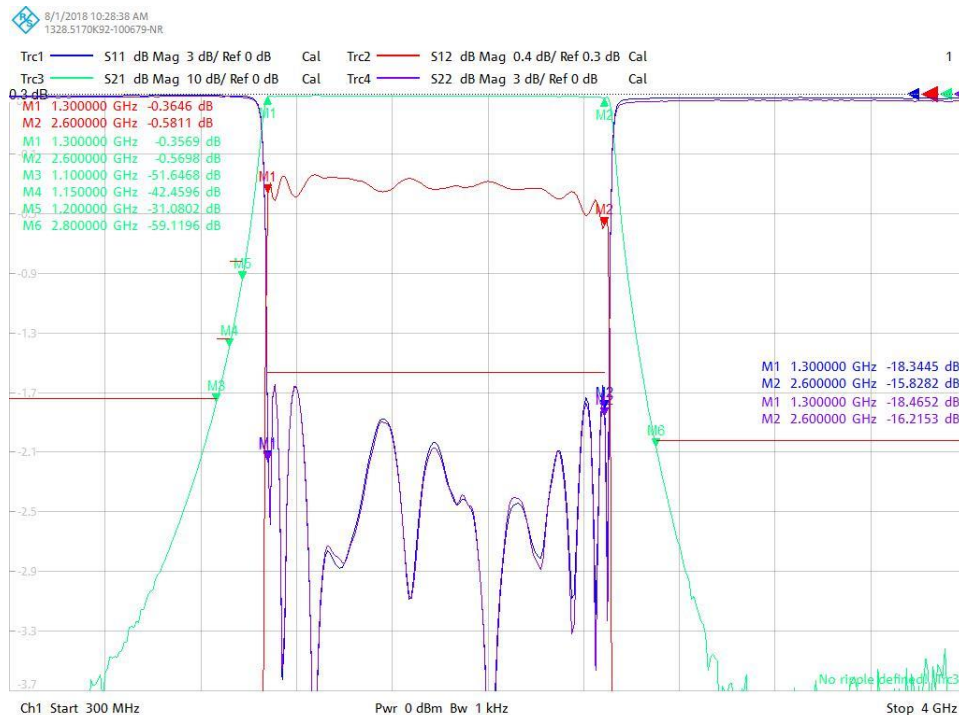


Figure 4 +70°C Temperature test curve of the Filter

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