

Technical Proposal for JX-CF1-44G48G-40M Ceramic Bandpass Filter

- ◆ Small Volume
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/05/19	Lin liqun	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-44G48G-40M

Dimension	LxWxH:6.0mm x 2.0mm x 0.254mm
Port connectors	Microstrip line
Notes	Material shall be RoHS 6/6

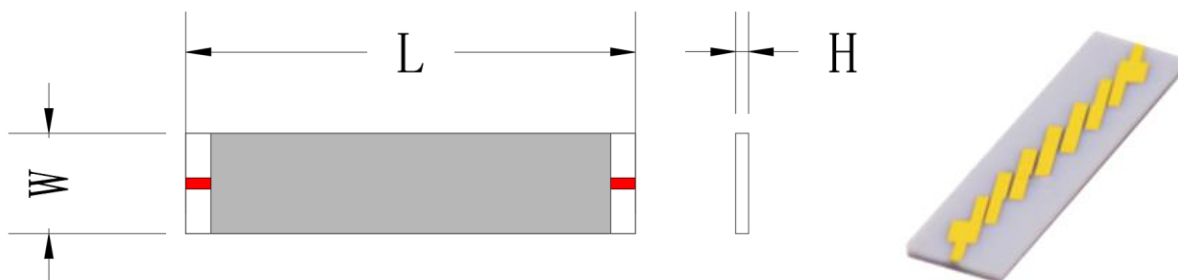


Figure 1 JX-CF1-44G48G-40M front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-44G48G-40M

Item	Parameter	Specification
1	Frequency range	44-48GHz
2	VSWR	≤ 1.7 / typ1.4
3	Insertion loss	≤ 2.5 dB
4	Ripple	≤ 1.0 dB
5	Rejection	≥ 40 dB @ DC-40GHz
6	Operating temperature	-55°C to +85°C
7	Storage temperature	-55°C to +125°C
8	Impedance	50Ω

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2.2 The simulation curve

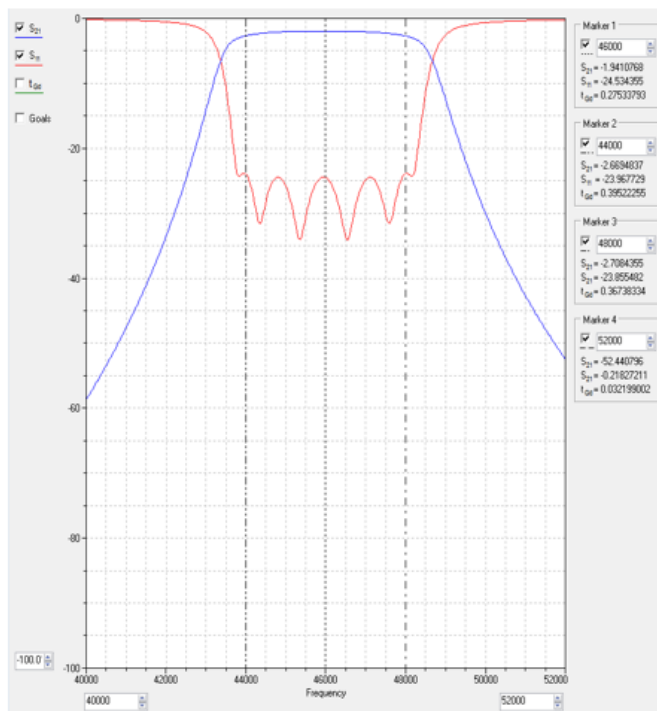
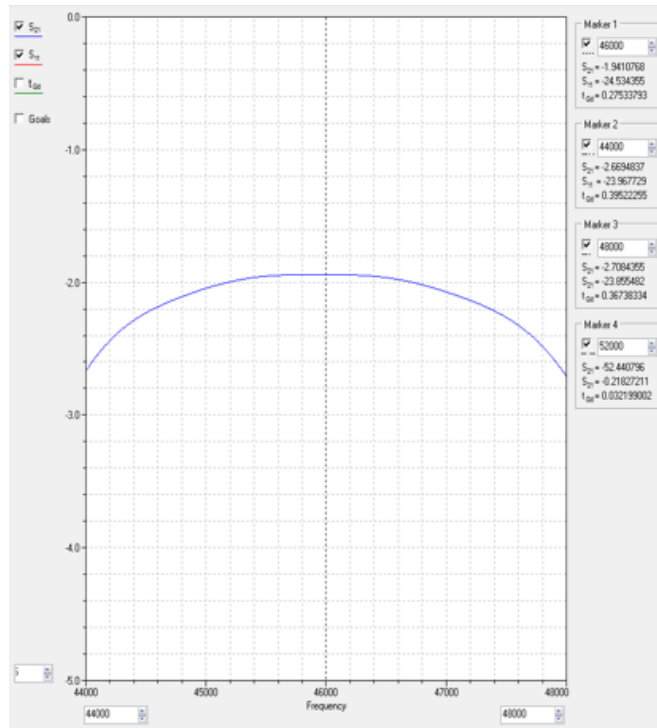


Figure 2 The simulation curve of the Filter

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