

Technical proposal for JX-CF1-26.95G31.05G-30S2 Cavity Filter

Revision History

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V1.0	2018/11/21	Lee	Created	/

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1. Mechanical layout

Table 1 Mechanical Specifications @ JX-CF1-26.95G31.05G-30S2

Dimension	L x W x H: 62.81mm x 18.5mm x 10.0mm(Max)
Port connectors	2.92-Female / 2.92-Male
Finish	Silver
Notes	Material shall be RoHS 6/6

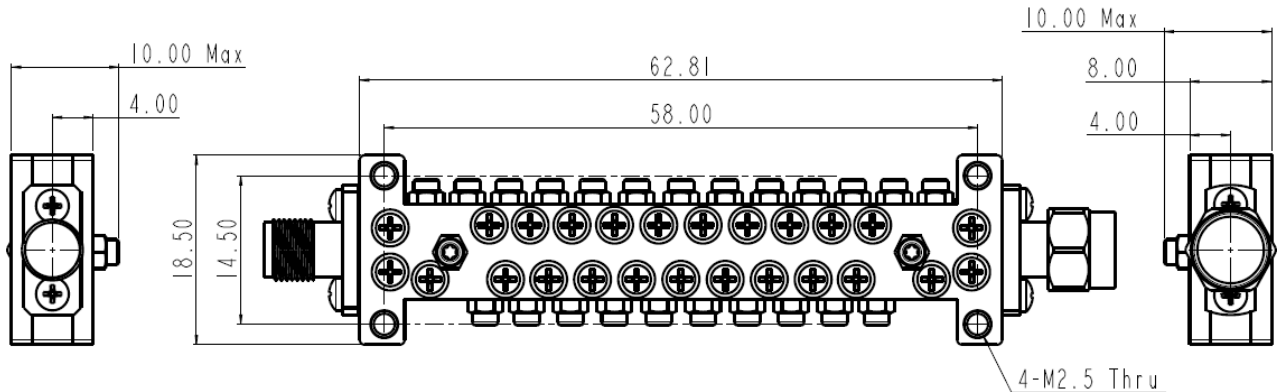


Figure 1 JX-CF1-26.95G31.05G-30S2 front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-26.95G31.05G-30S2

Item	Frequency Band	26950-31050MHz
1	Return Loss	≥18dB
2	Insertion loss	≤1.5dB
3	Insertion loss variation	≤0.3dB peak-peak in any 80MHz interval ≤0.6dB peak-peak in the range of 27000-31000MHz
4	Rejection	≥50dB @ DC-26000MHz ≥30dB @ 26000-26500MHz ≥30dB @ 31500-32000MHz ≥50dB @ 32000-50000MHz
5	Group delay variation	≤1ns peak-peak in any 80 MHz interval, in the range of 27000-31000MHz
6	Impedance	50 Ohm
7	Temperature range	-30°C to +70°C

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2.2 The simulation curve

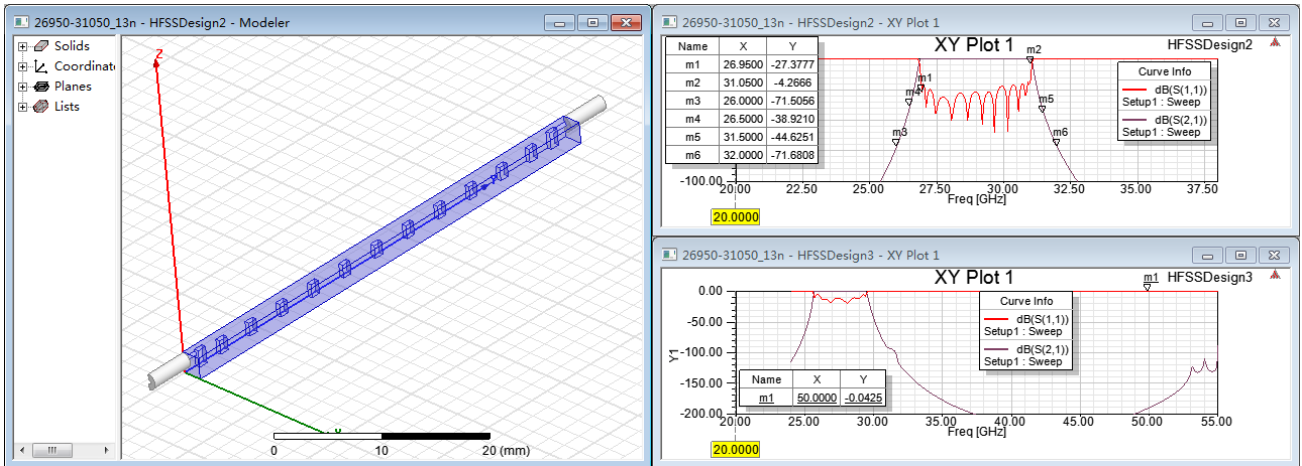


Figure 2 The simulation curve of the 3D model

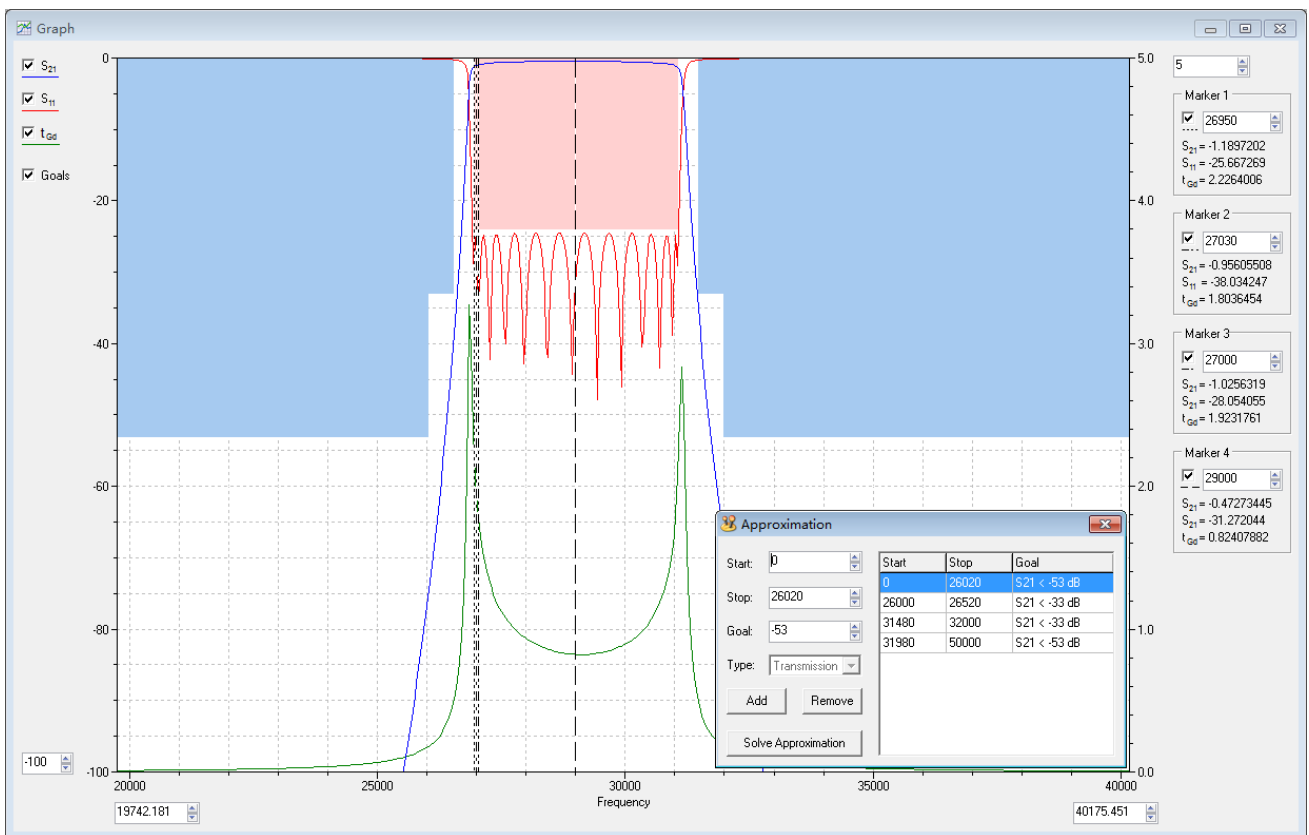


Figure 3 The simulation curve of the circuit

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