

Technical Proposal for JX-LCF1-2.5G18G-45S LC Filter

◆ High Performance

◆ High Reliability

Revision History

| Version | Date | Author | Revision description | Comment |
|---------|------------|--------|----------------------|---------|
| V1.0 | 2020/09/28 | Wang | Created | / |
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1. Mechanical specification

Table 1 Mechanical specifications @ JX-LCF1-2.5G18G-45S

| | |
|------------|-------------------------------|
| Dimension | L x W x H: 55mm x 30mm x 15mm |
| Connectors | SMA-Female |
| Notes | Material shall be RoHS 6/6 |

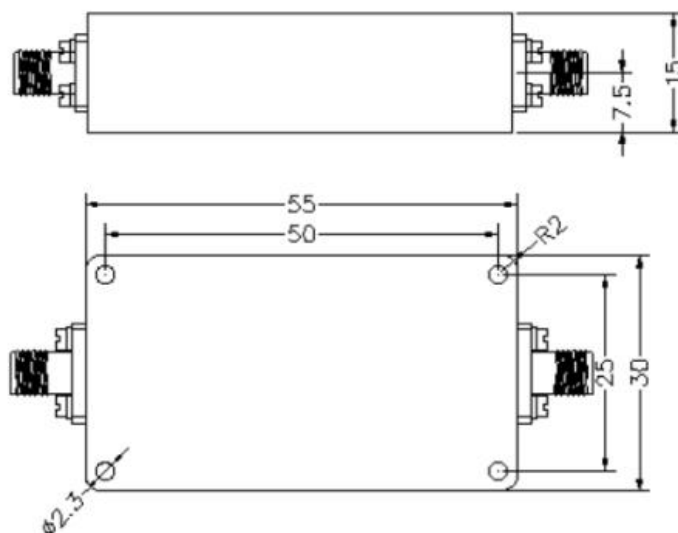


Figure 1 JX-LCF1-2.5G18G-45S front panel layout

2. Electrical analysis

2.1 Electrical specification

Table 2 Electrical specifications @ JX-LCF1-2.5G18G-45S

| Item | Parameter | Specifications | |
|------|-----------------------|----------------|----------------|
| 1 | Frequency range | 2.5-18GHz | |
| 2 | Insertion loss | ≤2.0dB | |
| 3 | VSWR | ≤2.0 | |
| 4 | Rejection | ≥45dB@2GHz | ≥45dB@19-25GHz |
| 5 | Power | 15W | |
| 6 | Impedance | 50Ω | |
| 7 | Operating temperature | -40°C to +80°C | |

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2.2 The simulation curve

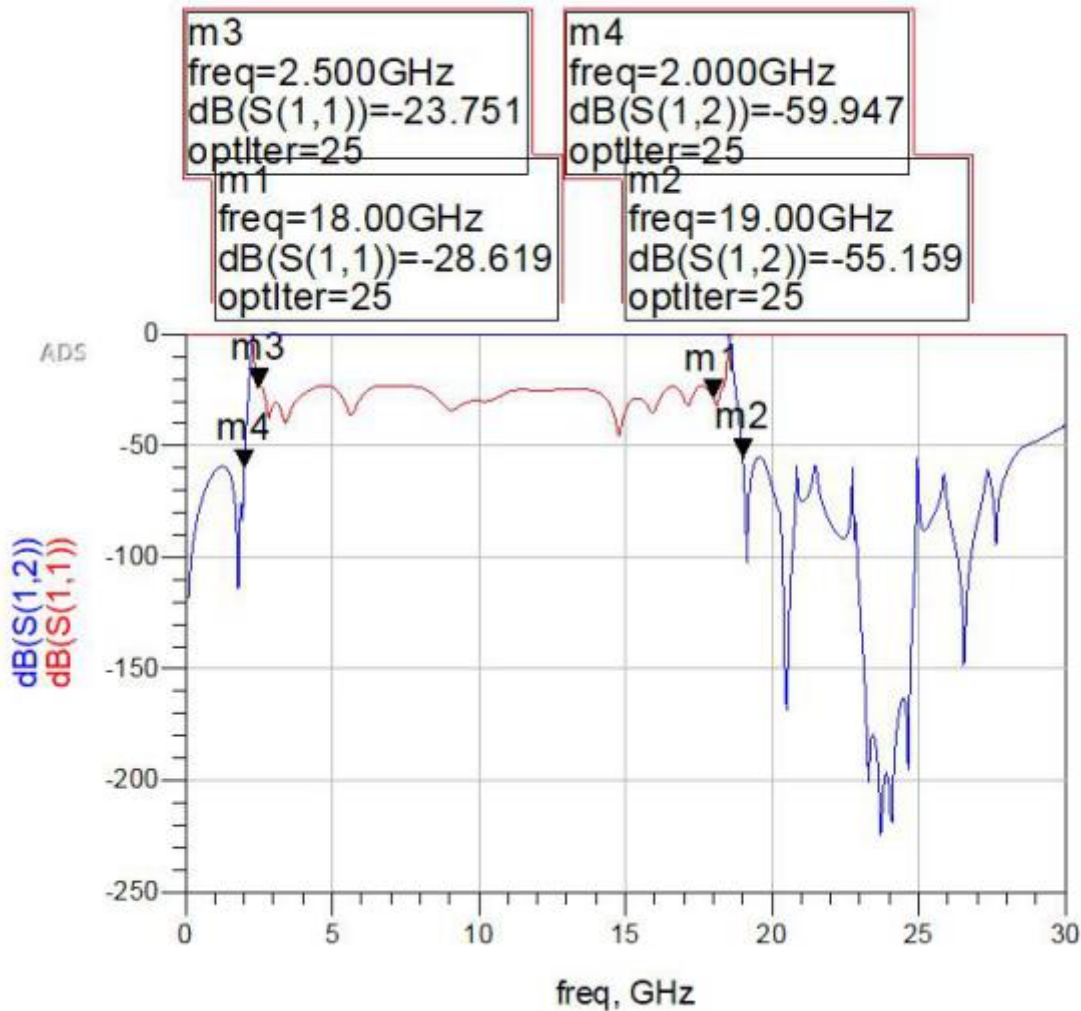


Figure 2 The simulation curve of the filter

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