

# Technical proposal for JX-LPF1-30M600M-40N Cavity Filter

◆ High Performance

◆ High Reliability

## Revision History

| Version | Date       | Author | Revision description | Comment |
|---------|------------|--------|----------------------|---------|
| V1.0    | 2020/09/24 | Lee    | Created              | /       |
|         |            |        |                      |         |
|         |            |        |                      |         |
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**1. Mechanical specification**

Table 1 Mechanical specifications @ JX-LPF1-30M600M-40N

|            |                                |
|------------|--------------------------------|
| Dimension  | L x W x H: 140mm x 60mm x 30mm |
| Connectors | N-Female                       |
| Material   | Aluminum                       |
| Finish     | Silver                         |
| Notes      | Material shall be RoHS 6/6     |

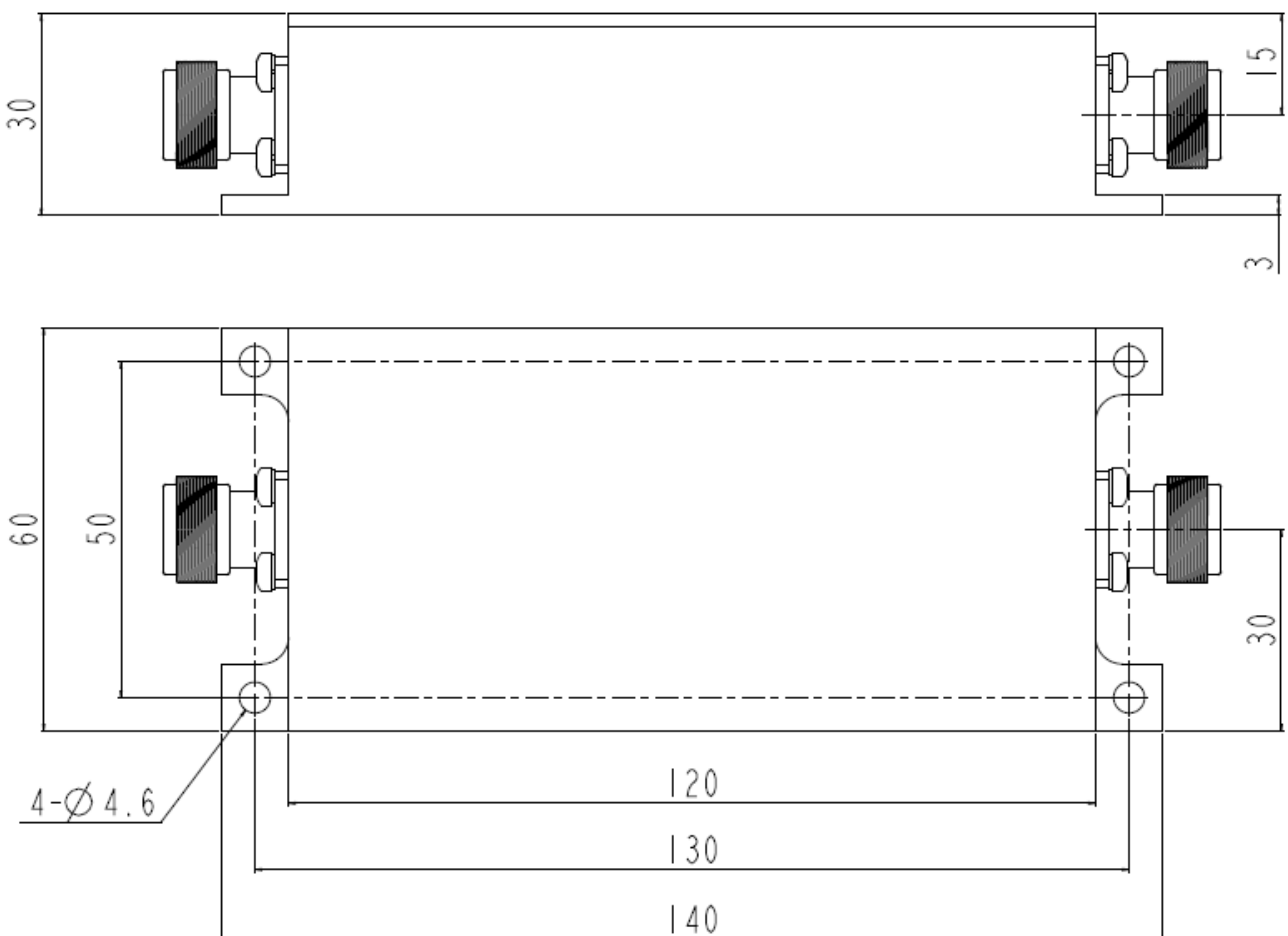


Figure 1 JX-LPF1-30M600M-40N front panel layout

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## 2. Electrical analysis

### 2.1 Electrical specification

Table 2 Electrical specifications @ JX-LPF1-30M600M-40N

| Item | Parameter             | Specifications    |
|------|-----------------------|-------------------|
| 1    | Frequency range       | 30-600MHz         |
| 2    | Insertion loss        | ≤1.0dB            |
| 3    | VSWR                  | ≤1.5              |
| 4    | Rejection             | ≥40dB@700-2000MHz |
| 5    | Power                 | 150W CW           |
| 6    | Impedance             | 50Ω               |
| 7    | Operating temperature | -10°C to +85°C    |
| 8    | Storage temperature   | -45°C to +85°C    |

### 2.2 The simulation curve

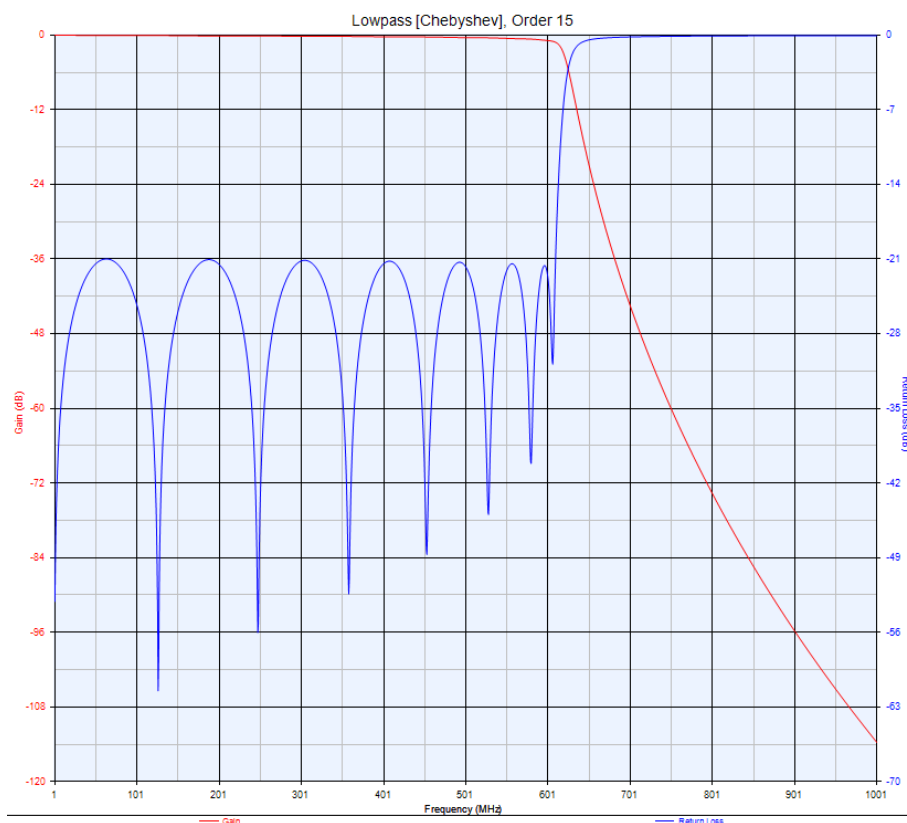


Figure 2 The simulation curve of the filter

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