

# Technical Proposal for JX-LCC2-66M470M-40N LC Combiner

◆ Low Insertion Loss

◆ Small Volume

◆ High Performance

◆ High Reliability

## Revision History

| Version | Date       | Author | Revision description   | Comment         |
|---------|------------|--------|--|-----------------|
| V1.0    | 2020/05/20 | Lee    | Created  | /               |
| V1.1    | 2021/01/28 | Lee    | Updated the high dimension of the connector: 15mm → 13mm<br>Updated the neck length of the connector | JingXin request |
|         |            |        |  |                 |

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## 1. Mechanical layout

Table 1 Mechanical specification

|                 |  |
|-----------------|--|
| Port connectors | N-Female                               |
| Dimension       | L x W x H: 60mm x 66mm x 22mm          |
| Weight          | ≤0.15kg                                |
| Finish          | Conductive oxidation of aluminum alloy |
| Environmental   | Indoor application                     |
| Notes           | Material shall be RoHS 6/6             |

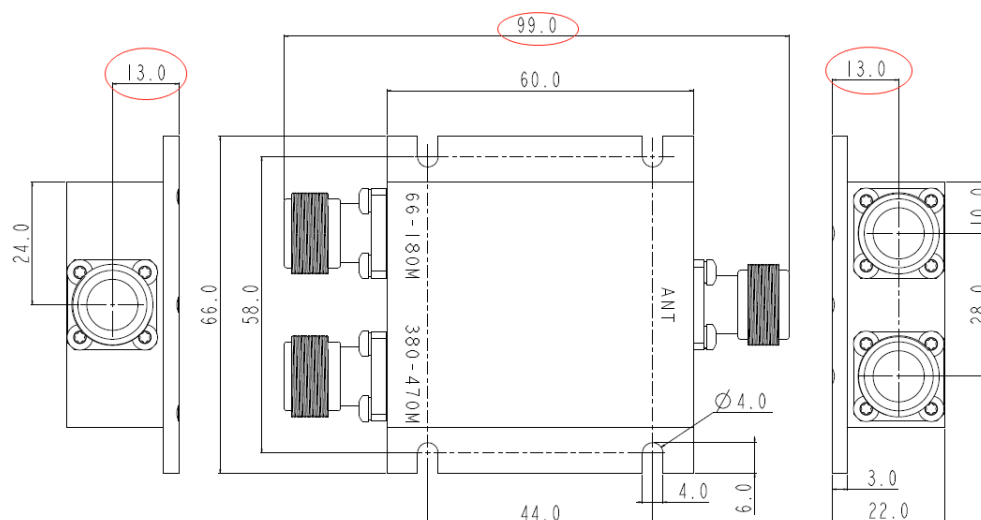


Figure 1 JX-LCC2-66M470M-40N front panel layout

## 2. Electrical analysis

Table 2 Electrical specifications

| Item | Parameter         | 66-180MHz                    | 380-470MHz      |
|------|-------------------|------------------------------|-----------------|
| 1    | Bandwidth         | 114MHz                       | 90MHz           |
| 2    | Insertion loss    | ≤1.0dB                       | ≤1.0dB          |
| 3    | In-band ripple    | ≤0.6dB                       | ≤0.6dB          |
| 4    | Rejections        | ≥40dB@380-470MHz             | ≥40dB@66-180MHz |
| 5    | Isolation         | ≥40dB@66-180MHz & 380-470MHz |                 |
| 6    | Return loss       | ≥15dB                        |                 |
| 7    | Impedance         | 50Ω                          |                 |
| 8    | Power             | 50W                          |                 |
| 9    | Temperature Range | -25°C to +65°C               |                 |

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