

Technical proposal for JX-PD2-450M960M-20N Power Divider

◆ High Performance

◆ High Reliability

Revision History

| Version | Date | Author | Revision description | Comment |
|---------|------------|--------|----------------------|---------|
| V1.0 | 2020/06/04 | Lee | Created | / |
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1. Mechanical layout

Table 1 Mechanical specifications @ JX-PD2-450M960M-20N

| | |
|------------|---------------------------------|
| Dimension | L x W x H: 72.4mm x 50mm x 21mm |
| Connectors | N-Female |
| Finish | Red paint spraying (RAL3000) |
| Notes | Material shall be RoHS 6/6 |

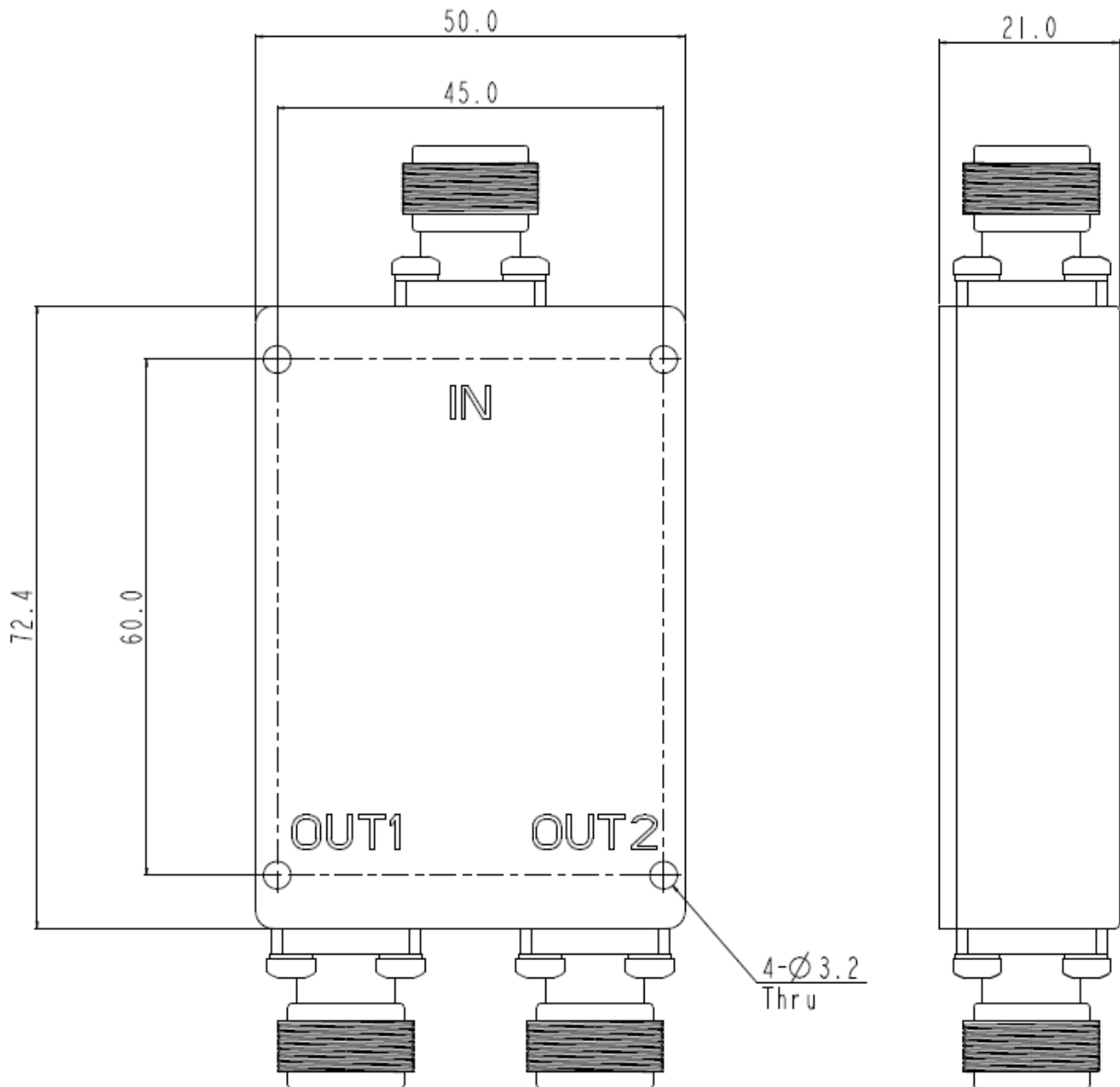


Figure 1 JX-PD2-450M960M-20N front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-PD2-450M960M-20N

| Item | Parameter | Specification |
|------|-------------------|--|
| 1 | Frequency range | 450-960MHz |
| 2 | Insertion loss | ≤ 0.35dB (Excluding theoretical loss 3.0 dB) |
| 3 | Input Port VSWR | ≤1.3: 1 |
| 4 | Output Port VSWR | ≤1.25: 1 |
| 5 | Isolation | ≥20dB |
| 6 | Amplitude balance | ≤0.2dB |
| 7 | Phase balance | ±1.5° |
| 8 | Forward power | 50W |
| | Reverse power | 1W |
| 9 | Impedance | 50Ω |
| 10 | Temperature range | -20°C to +70°C |

2.2 The simulation curve

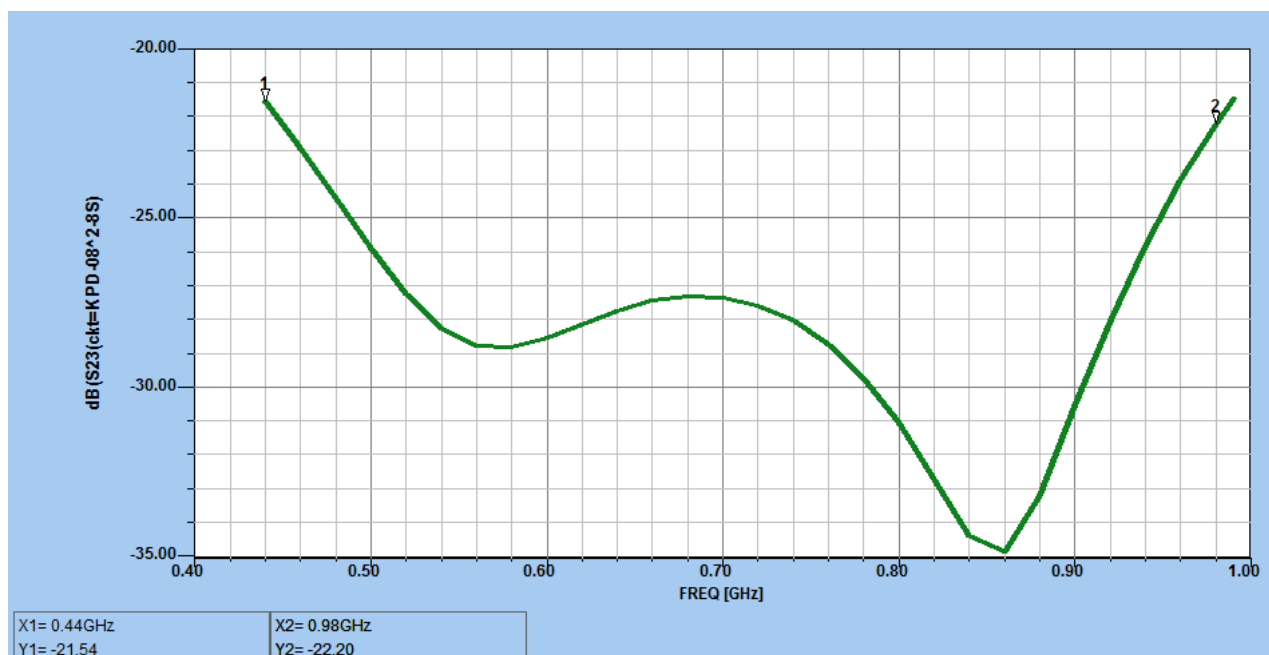


Figure 2 The simulation curve of the Isolation

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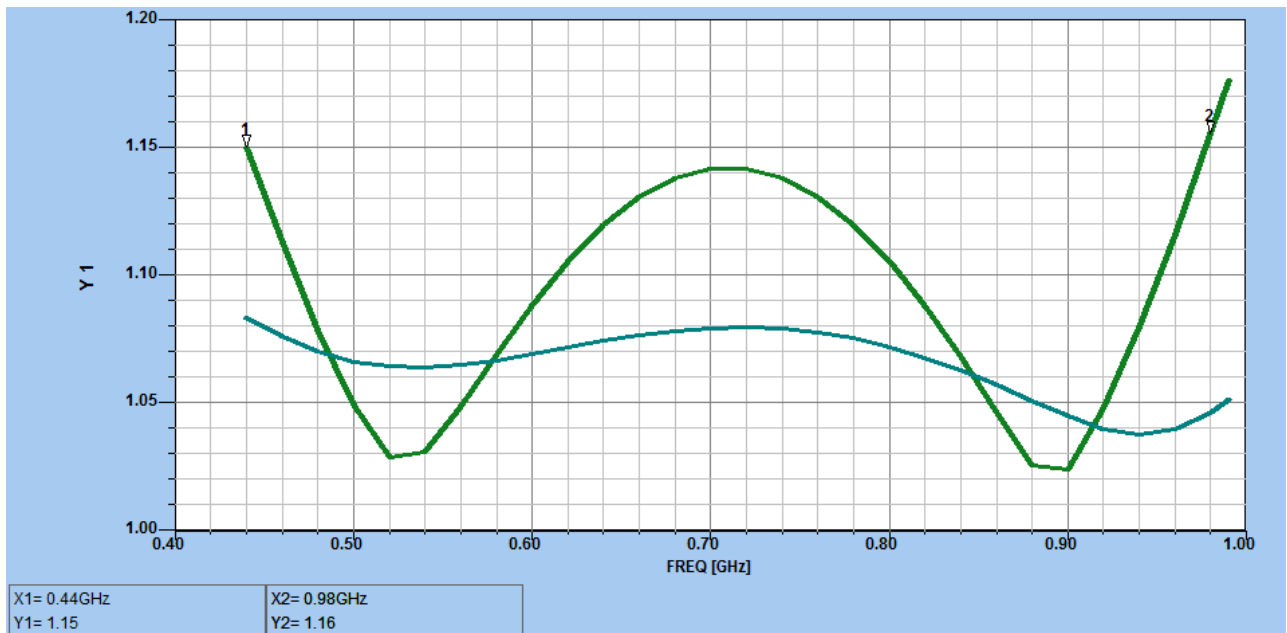


Figure 3 The simulation curve of the VSWR

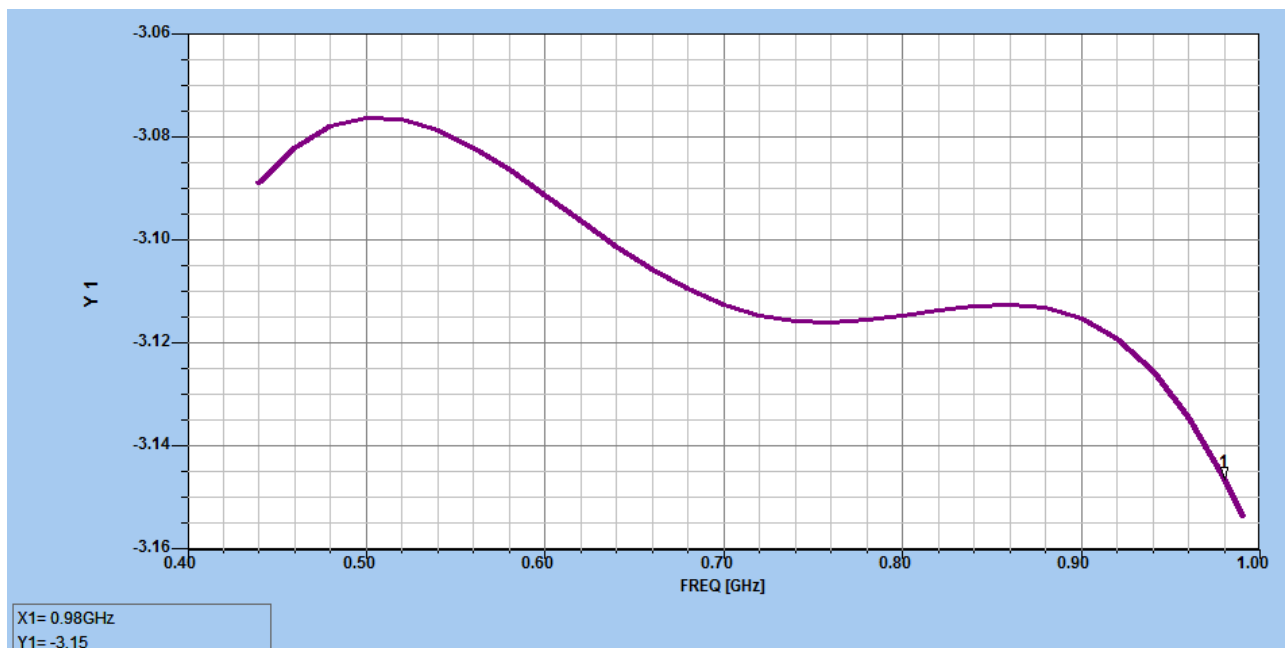


Figure 4 The simulation curve of the Insertion loss

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