

Technical proposal for JX-PD2-1G18G-20W Power Divider

- ◆ High Performance
- ◆ High Reliability
- ◆ RoHS Compliant
- ◆ Small Volume

Revision History

| Version | Date | Author | Revision description | Comment |
|---------|------------|--------|----------------------|---------|
| V1.0 | 2020/08/11 | Lee | Created | / |
| | | | | |

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-PD2-1G18G-20W

| | |
|------------|-------------------------------------|
| Dimension | L x W x H: 99.0mm x 24.0mm x 10.0mm |
| Weight | <70g |
| Connectors | SMA-Female |
| Finish | Gray painting |
| Notes | Material shall be RoHS 6/6 |

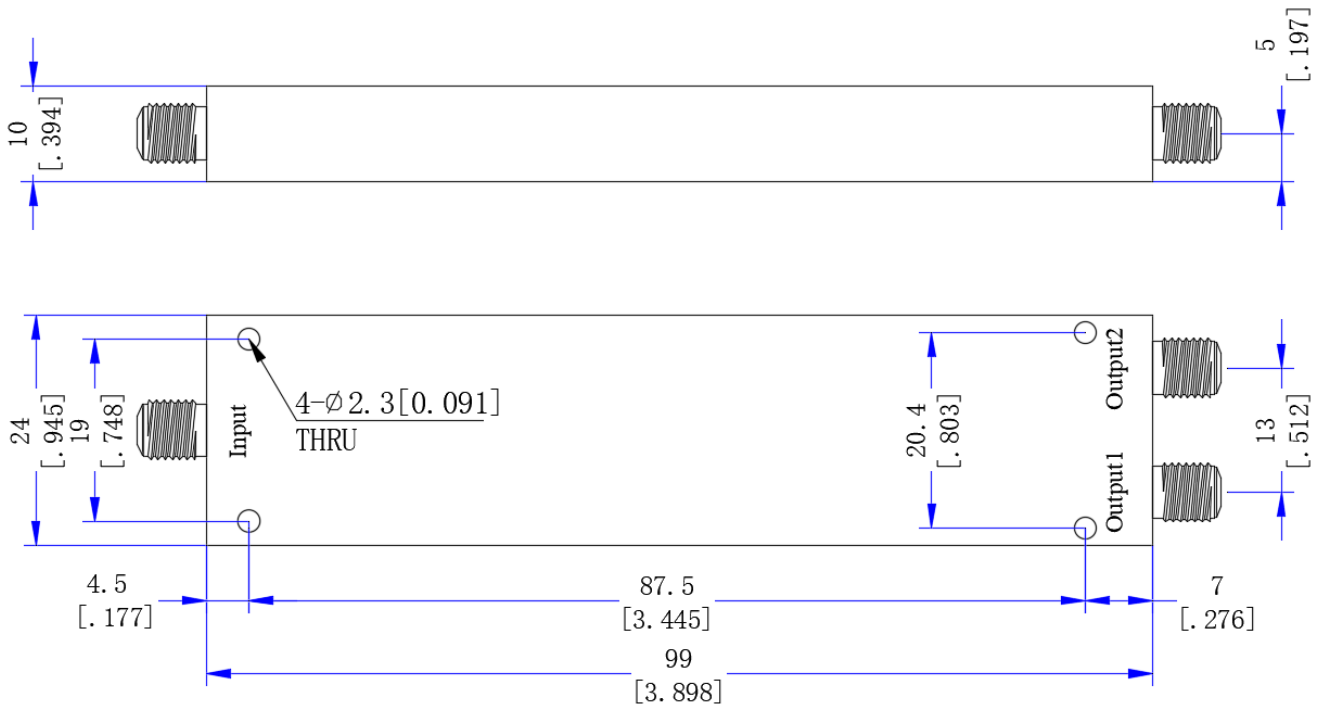


Figure 1 JX-PD2-1G18G-20W front panel layout

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2. Electrical analysis

2.1 Electrical specification

Table 2 Electrical specifications @ JX-PD2-1G18G-20W

| Item | Parameter | Specification |
|------|---------------------|---|
| 1 | Frequency range | 1.0-18.0GHz |
| 2 | Insertion loss | ≤1.2dB (Excluding the theoretical loss 3.0dB) |
| 3 | VSWR | ≤1.40 |
| 4 | Isolation | ≥16dB |
| 5 | Amplitude balance | ≤0.3dB |
| 6 | Phase balance | ±3° |
| 7 | Power handling (CW) | 20W as splitter / 1W as combiner |
| 8 | Impedance | 50Ω |
| 9 | Temperature range | -45°C to +85°C |

2.2 The test curve

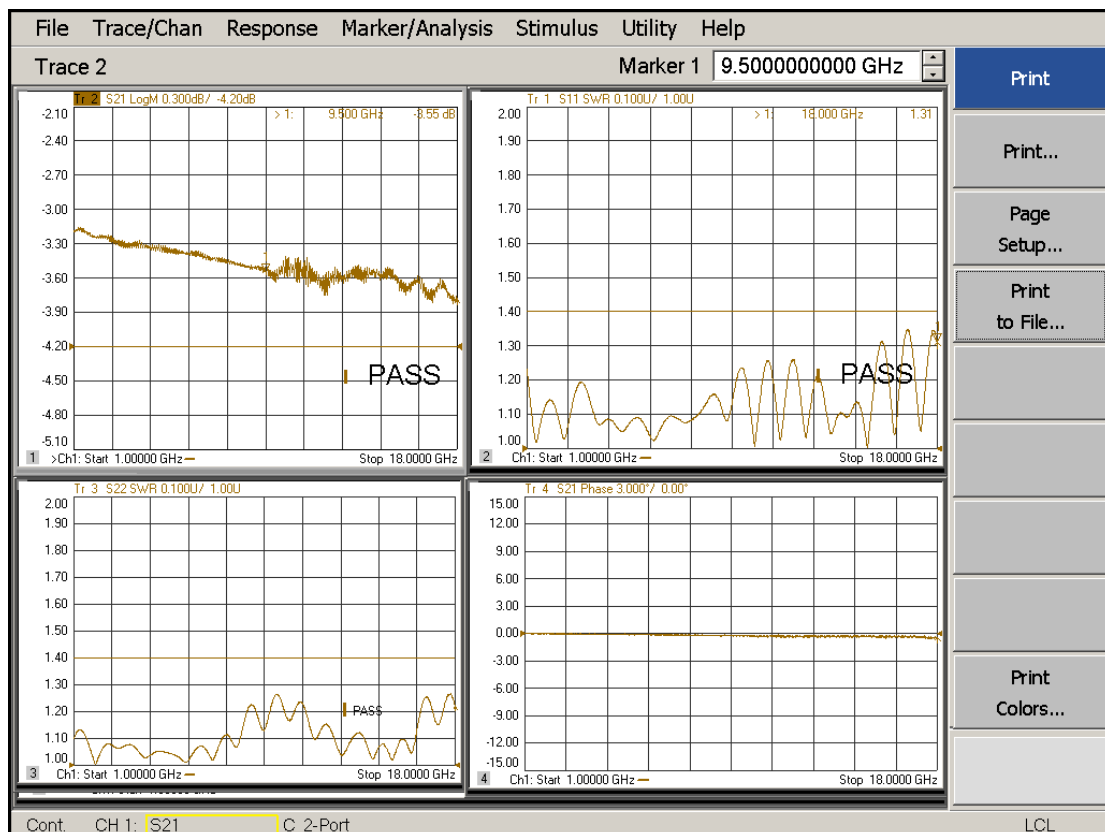


Figure 2 The test curve of output1

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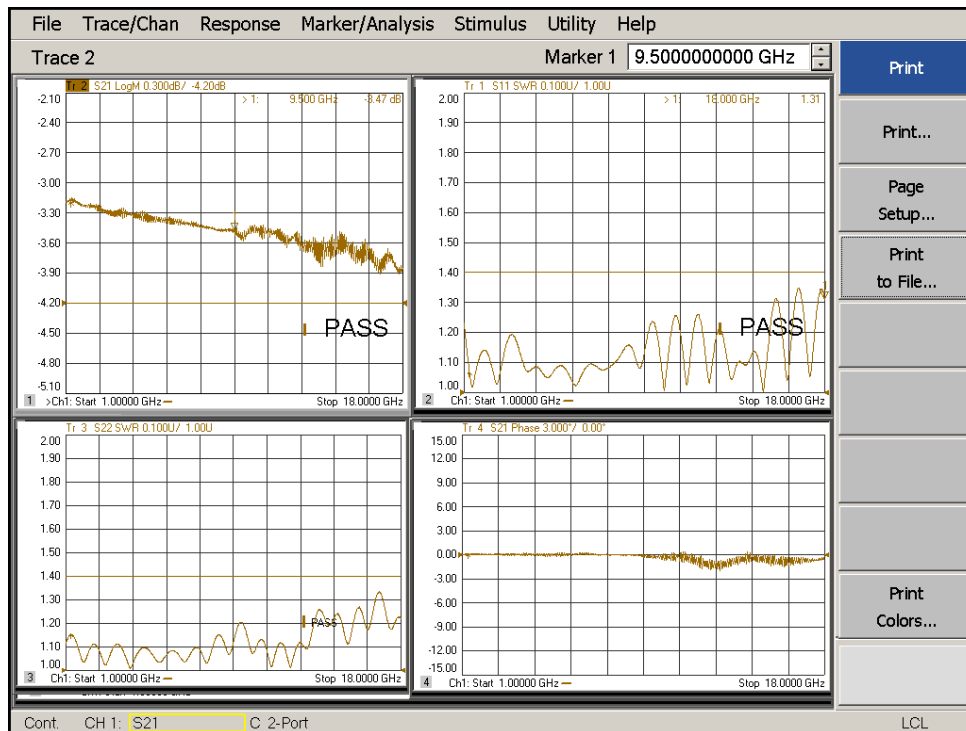


Figure 3 The test curve of output2

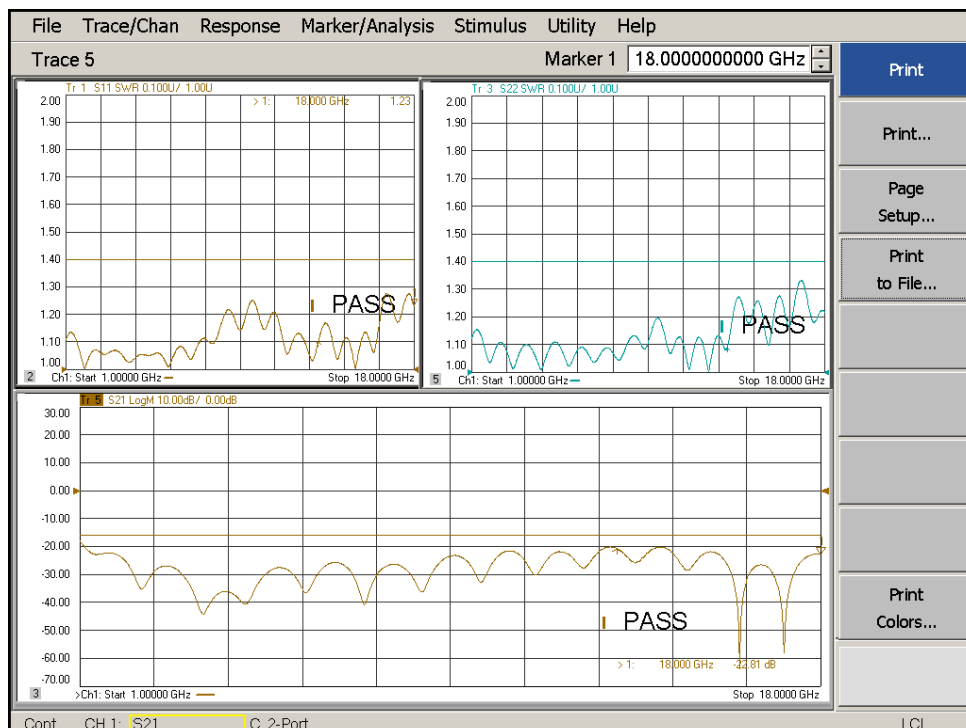


Figure 4 The test curve of isolation

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