

1-18GHz 30dB Directional Coupler

P/N: MZD300118GH



Description:

MZD300118GH is a 30dB single directional coupler with a typical insertion Loss of 0.6dB and a typical directivity of 16dB across the frequency range of 1 to 18GHz. The directional coupler can reach handling power 20W. Accept customization according to different needs.

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (+25°C) :

| Parameter | Min. | Typ. | Max. | Units |
|-----------------------|------|--------------------------|------|-------|
| Frequency Range | | 1-18 | | GHz |
| Insertion Loss | | 0.6 | 0.9 | dB |
| Nominal Coupling | | 30 | | dB |
| Coupling Accuracy | | ±0.2 | ±0.5 | dB |
| Frequency Sensitivity | | ±0.9 | ±1.0 | dB |
| Directivity | 15 | 16 | | dB |
| VSWR | | 1.3 | 1.4 | - |
| Power Handling | | 20 | | W |
| Impedance | | 50 | | Ω |
| Connector | | SMA-Female | | |
| Material | | Aluminum | | |
| Weight | | 44.2g / 1.56 Ounces Max. | | |
| Finish | | Black Paint(Standard) | | |

Environmental Specifications:

- ※ Operational Temperature -55°C~+85°C
- ※ Storage Temperature -55°C~+100°C



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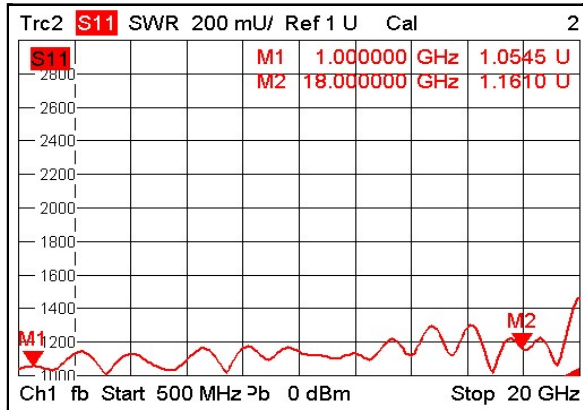
1-18GHz 30dB Directional Coupler

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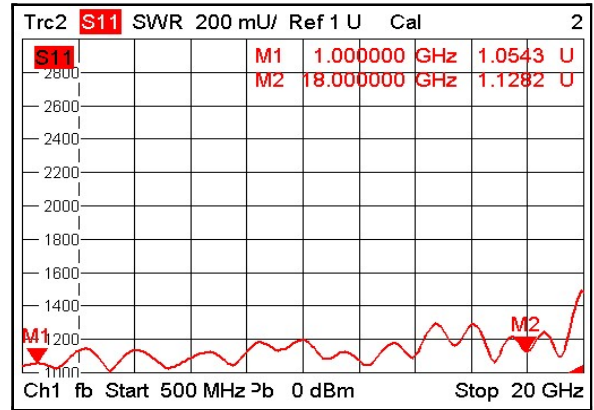


Typical Performance (Room Temp. +25°C, RH: 50%)

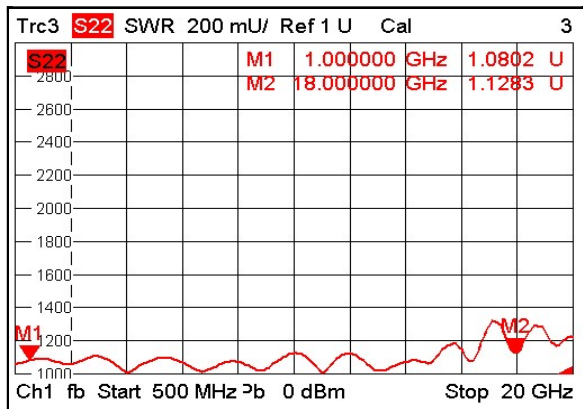
IN-Port VSWR



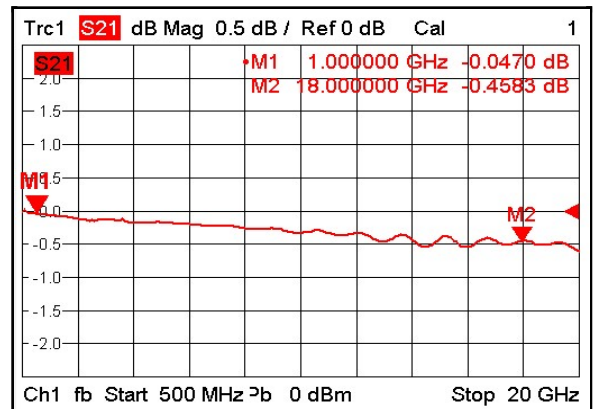
OUT-Port VSWR



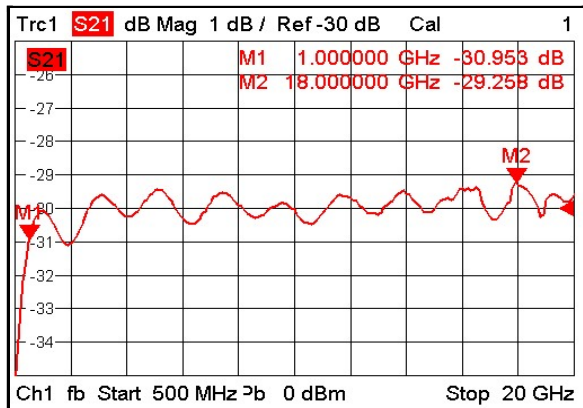
Coupling-Port VSWR



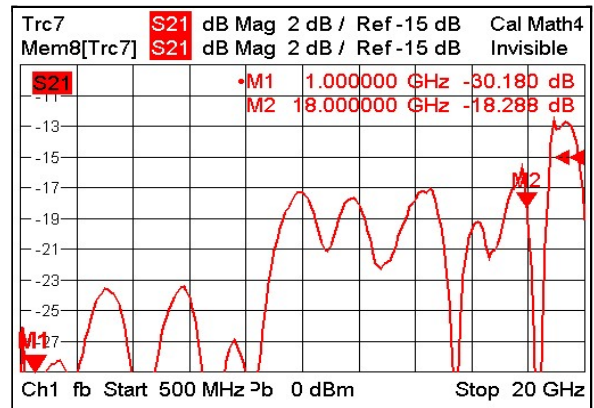
Insertion Loss



Coupling



Directivity



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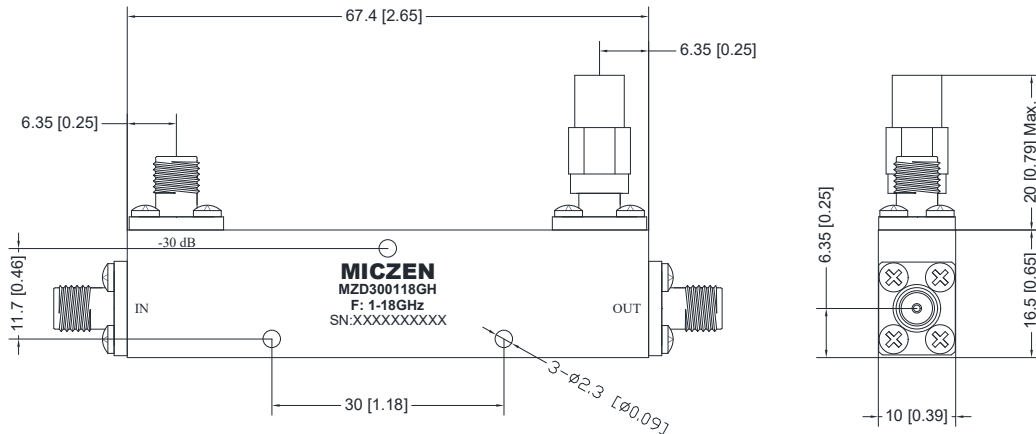
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Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



NOTE:

1. The product is designed to meet environmental ratings but not tested. If you need to test environmental condition, please contact our sales department.
2. Miczen technologies co., Ltd. reserves the right to change the above information without notice.

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