

## 2-50GHz 10dB Directional Coupler

P/N: MZD100250GH



### Description:

MZD100250GH is a 10dB single directional coupler with a typical insertion Loss of 1.8dB and a typical directivity of 12dB across the frequency range of 2 to 50GHz. 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       |      | 2-50                    |      | GHz   |
| Insertion Loss        |      | 1.8                     | 2.0  | dB    |
| Nominal Coupling      |      | 10                      |      | dB    |
| Coupling Accuracy     |      | ±0.2                    | ±0.5 | dB    |
| Frequency Sensitivity |      | ±0.8                    | ±1.0 | dB    |
| Directivity           | 10   | 12                      |      | dB    |
| VSWR                  |      | 1.6                     | 1.8  | -     |
| Power Handling        |      | 20                      |      | W     |
| Impedance             |      | 50                      |      | Ω     |
| Connector             |      | 2.4mm-Female            |      |       |
| Material              |      | Aluminum                |      |       |
| Weight                |      | 36 g / 1.27 Ounces Max. |      |       |
| Finish                |      | Black Paint(Standard)   |      |       |

### Environmental Specifications:

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



MICZEN THCHNOLOGIES CO.,LTD.

Phone: +86 28 65003621 | E-mail: sales@miczen.com | Web: www.miczen.com

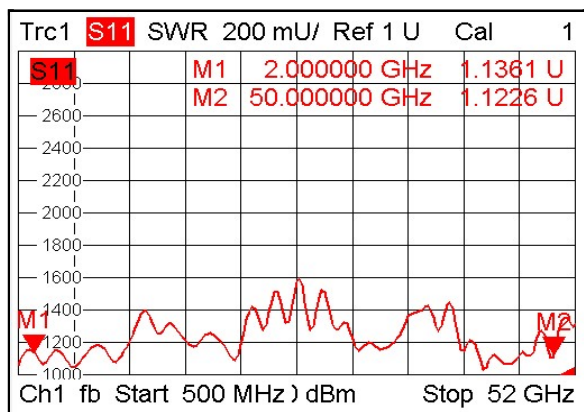
# 2-50GHz 10dB Directional Coupler

P/N: MZD100250GH

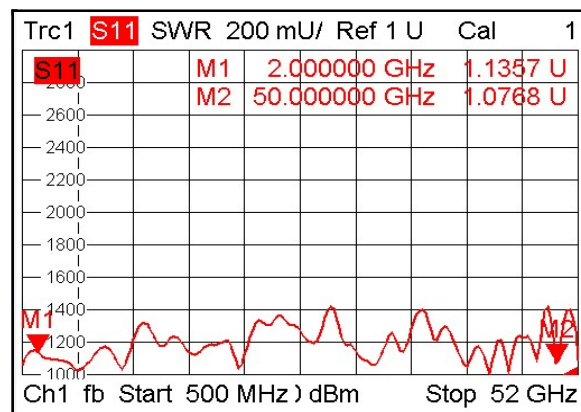


## ■ Typical Performance (Room Temp. +25°C, RH: 50%)

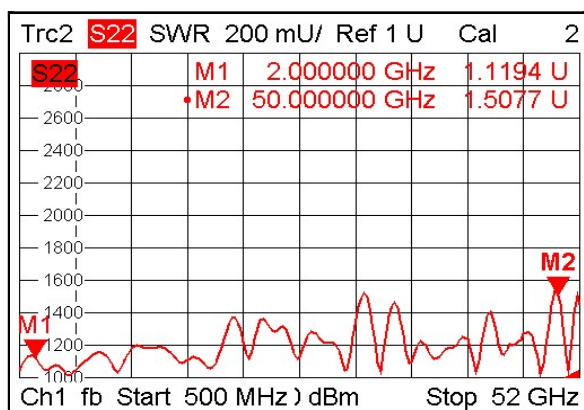
### IN-Port VSWR



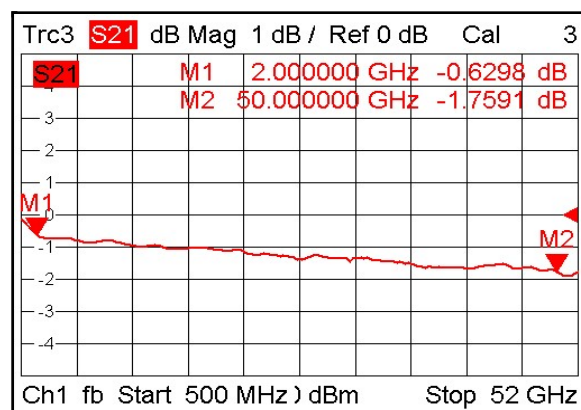
### OUT-Port VSWR



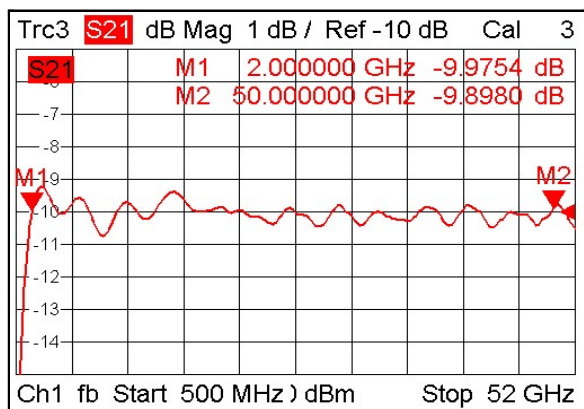
### Coupling-Port VSWR



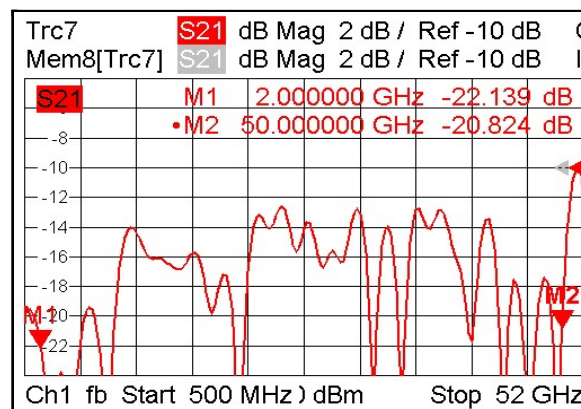
### Insertion Loss



### Coupling



### Directivity



MICZEN TECHNOLOGIES CO.,LTD.

Phone: +86 28 65003621 | E-mail: sales@miczen.com | Web: www.miczen.com

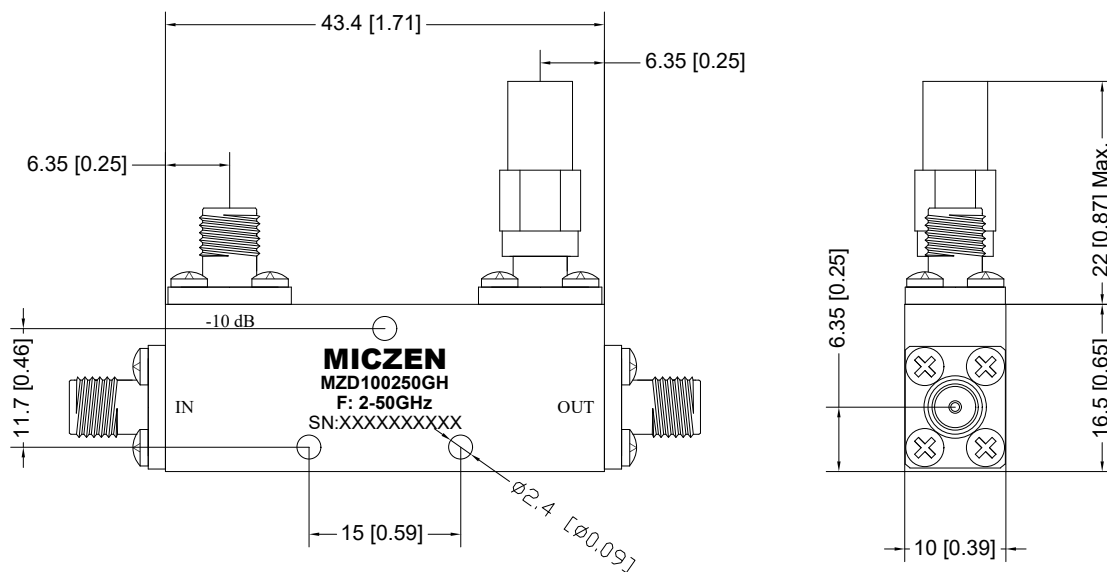
# 2-50GHz 10dB Directional Coupler

P/N: MZD100250GH



## ■ Outline Drawing

All Dimensions in mm (inches) Tolerance  $\pm 0.25$  (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.

**MICZEN THCHNOLOGIES CO.,LTD.**

Phone: +86 28 65003621 | E-mail: [sales@miczen.com](mailto:sales@miczen.com) | Web: [www.miczen.com](http://www.miczen.com)