

# 2-50GHz 20dB Directional Coupler

P/N: MZD200250GH



## Description:

MZD200250GH is a 20dB single directional coupler with a typical insertion Loss of 1.0dB 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        |      | 1.0                      | 1.5  | dB    |
| Nominal Coupling      |      | 20                       |      | dB    |
| Coupling Accuracy     |      | ±0.2                     | ±0.5 | dB    |
| Frequency Sensitivity |      | ±0.7                     | ±1.0 | dB    |
| Directivity           | 10   | 12                       |      | dB    |
| VSWR                  |      | 1.5                      | 1.8  | -     |
| Power Handling        |      | 20                       |      | W     |
| Impedance             |      | 50                       |      | Ω     |
| Connector             |      | 2.4mm-Female             |      |       |
| Material              |      | Aluminum                 |      |       |
| Weight                |      | 37.4g / 1.32 Ounces Max. |      |       |
| Finish                |      | Black Paint(Standard)    |      |       |

## Environmental Specifications:

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



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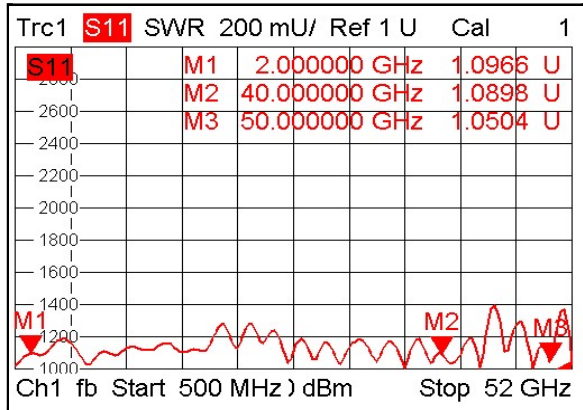
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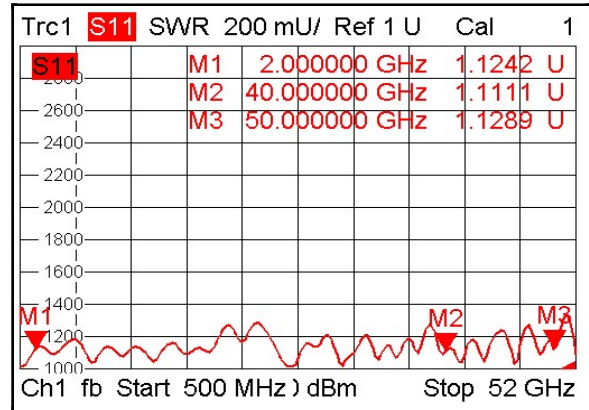


## Typical Performance (Room Temp. +25°C, RH: 50%)

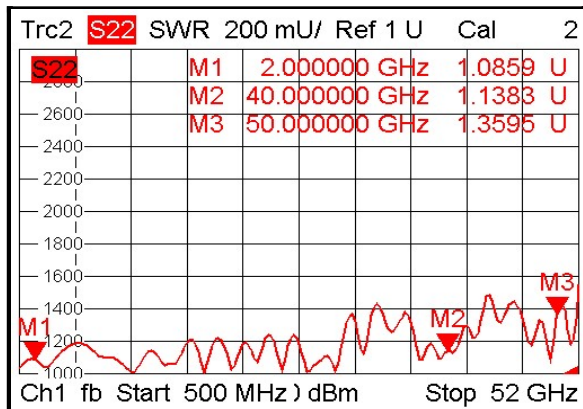
### IN-Port VSWR



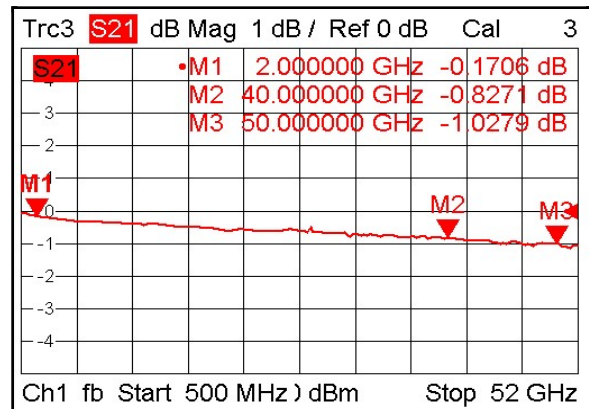
### OUT-Port VSWR



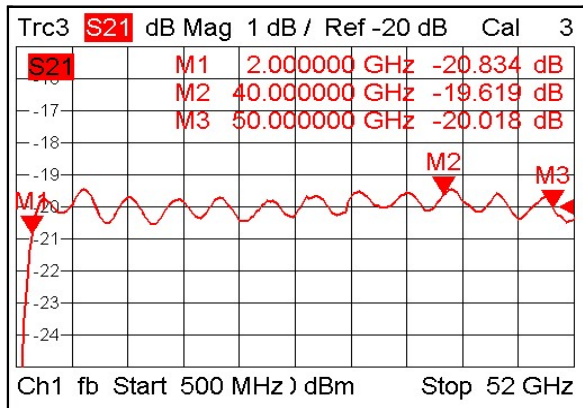
### Coupling-Port VSWR



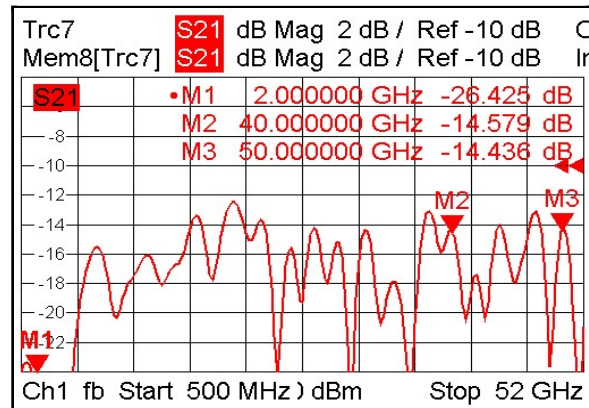
### Insertion Loss



### Coupling



### Directivity



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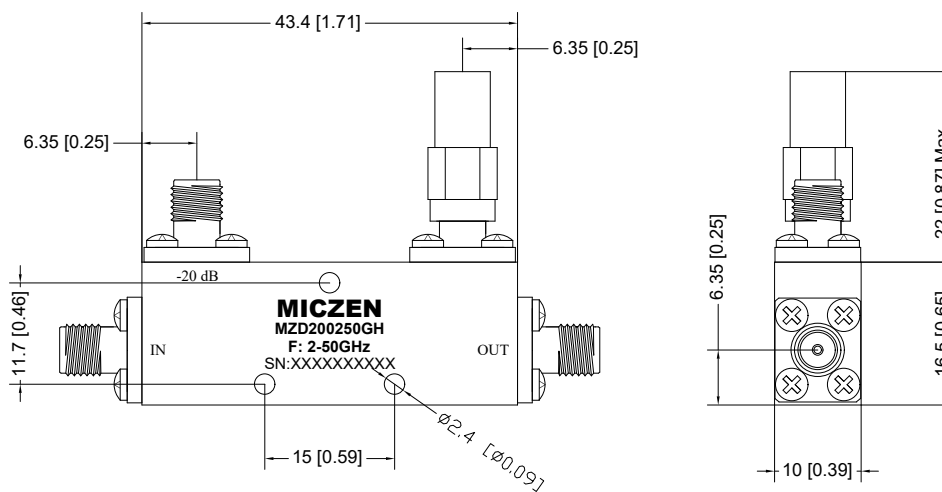
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## Outline Drawing

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

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