

## Main specifications

| Parameters         | Min | Typical | Max | Units   |
|--------------------|-----|---------|-----|---------|
| Frequency          | 1   | ~       | 3   | GHz     |
| Gain               | 30  |         |     | dB(正斜率) |
| Gain difference    | 2.5 |         |     | dB      |
| Gain flatness      |     |         | 2   | dB      |
| Noise figure       |     |         | 2.5 | dB      |
| VSWR               |     |         | 2.2 |         |
| P-1dB              | 18  |         |     | dBm     |
| Psat               | 19  |         |     | dBm     |
| Max input power    |     |         | 10  | dBm     |
| Spur reduction     | 55  |         |     | dBc     |
| Harmonic Rejection |     | 25      |     | dBc     |
| OIP3               |     | 30      |     | dBm     |
| 反相隔离               |     | 60      |     | dBc     |

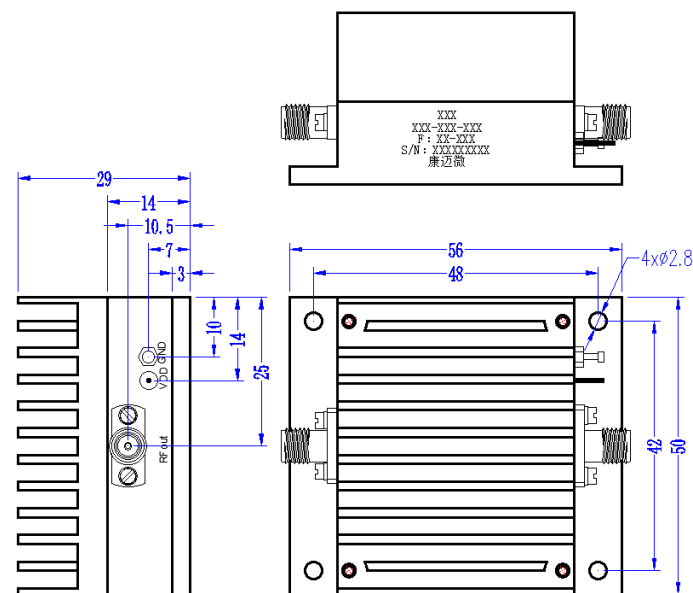
## Other parameters

|                    |                            |
|--------------------|----------------------------|
| Connector          | SMA-F                      |
| Connector material | Stainless steel            |
| Impedance          | 50Ω                        |
| Surface            | Conductive oxidation       |
| Working voltage    | +12V                       |
| Working current    | 400mA                      |
| Operation Temp.    | -30~+60°C Design assurance |
| Quality Grade      | Industrial grade           |

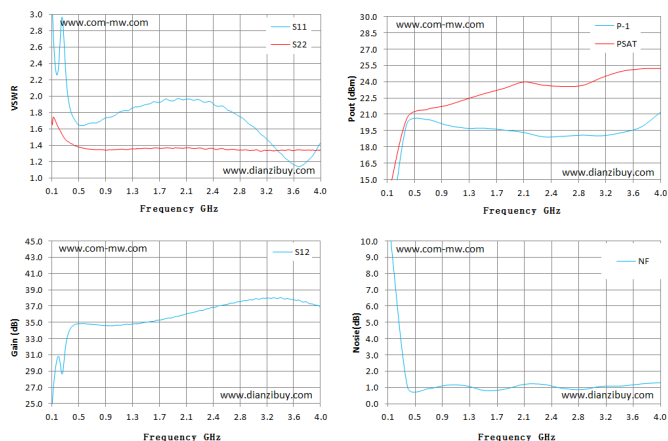
## Reference picture



## Configuration



## Typical test curve



Note: The specifications and performance data contained in this data sheet are based on tests established by CMW.

## Typical test data

| Frequency | S11      | S22      | Gain      | P-1       | Psat      | Noise    |
|-----------|----------|----------|-----------|-----------|-----------|----------|
| GHz       | VS<br>WR | VS<br>WR | dB        | dB<br>m   | dB<br>m   | dB       |
| 0.1       | 3.2      | 1.6<br>6 | 24.<br>07 | 7.8<br>1  | 13.<br>01 | 11.<br>6 |
| 0.38      | 1.8      | 1.4<br>2 | 34.<br>36 | 20.<br>1  | 20.<br>6  | 0.9<br>9 |
| 0.66      | 1.6<br>7 | 1.3<br>6 | 34.<br>76 | 20.<br>52 | 21.<br>44 | 0.9<br>1 |
| 0.94      | 1.7<br>5 | 1.3<br>5 | 34.<br>58 | 20.<br>2  | 21.<br>8  | 1.1<br>4 |
| 1.21      | 1.8<br>3 | 1.3<br>5 | 34.<br>72 | 19.<br>73 | 22.<br>35 | 1.1<br>1 |
| 1.49      | 1.9<br>1 | 1.3<br>7 | 35.<br>03 | 19.<br>73 | 22.<br>91 | 0.8<br>1 |
| 1.77      | 1.9<br>7 | 1.3<br>7 | 35.<br>5  | 19.<br>55 | 23.<br>39 | 0.8<br>9 |
| 2.03      | 1.9<br>7 | 1.3<br>7 | 36.<br>04 | 19.<br>33 | 23.<br>97 | 1.2      |
| 2.33      | 1.9<br>3 | 1.3<br>6 | 36.<br>59 | 18.<br>92 | 23.<br>67 | 1.1<br>8 |
| 2.61      | 1.8<br>7 | 1.3<br>5 | 37.<br>17 | 18.<br>98 | 23.<br>57 | 0.9<br>3 |
| 2.89      | 1.7<br>2 | 1.3<br>5 | 37.<br>67 | 19.<br>08 | 23.<br>66 | 0.8<br>7 |
| 3.16      | 1.5<br>2 | 1.3<br>4 | 37.<br>97 | 19.<br>08 | 24.<br>38 | 1.0<br>8 |
| 3.44      | 1.2<br>9 | 1.3<br>4 | 38.<br>02 | 19.<br>31 | 24.<br>95 | 1.0<br>9 |
| 3.72      | 1.1<br>5 | 1.3<br>4 | 37.<br>59 | 19.<br>83 | 25.<br>18 | 1.2<br>2 |
| 4         | 1.4<br>3 | 1.3<br>4 | 36.<br>9  | 21.<br>21 | 25.<br>21 | 1.3      |

## Note

Store in an environment with humidity less than 25%, pay attention to dust and static electricity prevention;

Please pay attention to the power consumption of the product and consider the issue of amplifier heat dissipation during design;

Working or storage temperature less than 125 °C;

Clean the surface of the product, do not soak the product in cleaning solution for cleaning.

## Explanation of gain difference and gain flatness

