

## Main specifications

| Parameters          | Min | Typical | Max  | Units |
|---------------------|-----|---------|------|-------|
| Frequency           | 4   | ~       | 40   | GHz   |
| IL                  |     |         | 4.2  | dB    |
| Isolation           | 16  |         |      | dB    |
| Common port VSWR    |     |         | 1.8  |       |
| Branching port VSWR |     |         | 1.7  |       |
| Amplitude balance   |     |         | ±0.5 | dB    |
| Phase balance       |     |         | ±8   | °     |

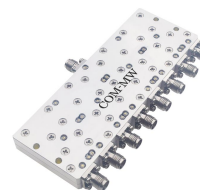
## Other parameters

|                        |                            |
|------------------------|----------------------------|
| Power Capacity         | 20W Design assurance       |
| X-Way                  | 8-way                      |
| Phase                  | 0°                         |
| Impedance              | 50Ω                        |
| Connector              | 2.92-F                     |
| Surface                | Conductive oxidation       |
| Product shell material | Aluminium                  |
| Operation Temp.        | -40~+70°C Design assurance |

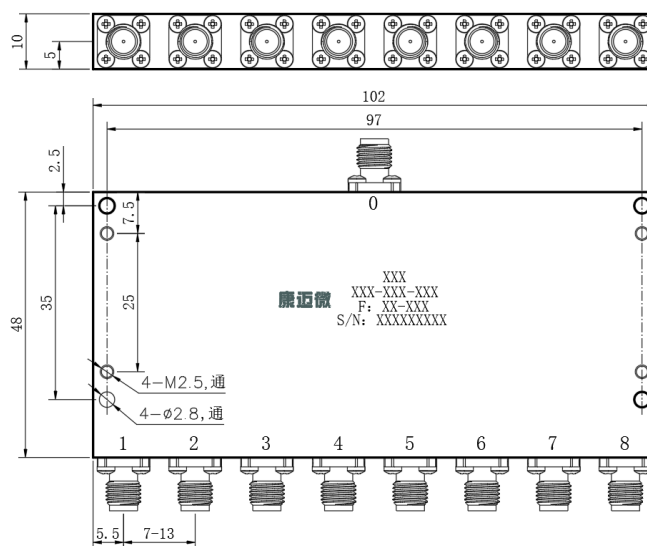
## Port Definition

|               |     |
|---------------|-----|
| Common port   | 0   |
| Dispatch Port | 1~8 |

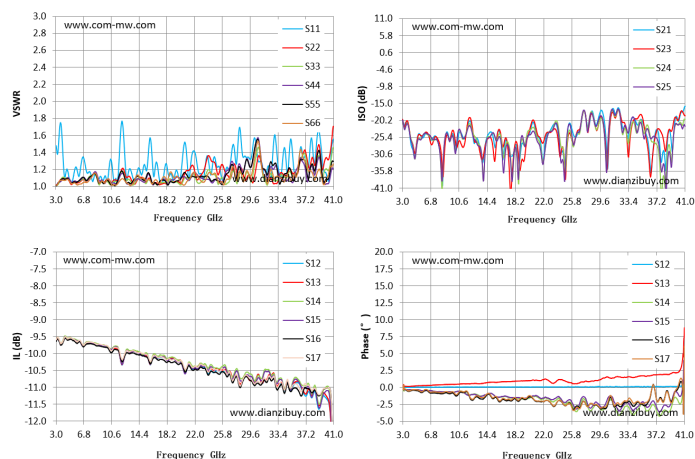
## Reference picture



## Configuration(mm)



## Typical test curve



## Note

- 1 Clean the surface of the product, do not soak the product in cleaning solution for cleaning.
- 2 If the temperature is higher than 125°C, consult with us before ordering.

## Typical test data

| Frequency GHz | S11<br>VS<br>WR | S22<br>VS<br>WR | S1<br>2 IL<br>dB | S21<br>ISO<br>dB | S13<br>Pha<br>se<br>(°) |
|---------------|-----------------|-----------------|------------------|------------------|-------------------------|
| 3.00          | 1.48            | 1.02            | -9.6<br>2        | -20.<br>13       | -0.0<br>1               |
| 5.71          | 1.23            | 1.05            | -9.6<br>2        | -25.<br>59       | 0.26                    |
| 8.43          | 1.16            | 1.15            | -9.7<br>1        | -39.<br>22       | 0.40                    |
| 11.14         | 1.08            | 1.08            | -9.8<br>6        | -25.<br>35       | 0.53                    |
| 13.85         | 1.08            | 1.03            | -9.9<br>5        | -32.<br>67       | 0.59                    |
| 16.57         | 1.20            | 1.04            | -10.<br>07       | -31.<br>39       | 0.84                    |
| 19.28         | 1.13            | 1.06            | -10.<br>18       | -27.<br>57       | 0.96                    |
| 22.00         | 1.41            | 1.18            | -10.<br>43       | -31.<br>17       | 1.14                    |
| 24.71         | 1.35            | 1.29            | -10.<br>55       | -31.<br>96       | 1.01                    |
| 27.42         | 1.45            | 1.26            | -10.<br>70       | -17.<br>19       | 0.79                    |
| 30.14         | 1.56            | 1.09            | -10.<br>86       | -20.<br>68       | 1.39                    |
| 32.85         | 1.55            | 1.03            | -10.<br>64       | -22.<br>06       | 1.49                    |
| 35.56         | 1.22            | 1.15            | -10.<br>92       | -22.<br>99       | 1.70                    |
| 38.28         | 1.32            | 1.29            | -11.<br>14       | -32.<br>74       | 1.92                    |
| 40.99         | 1.55            | 1.71            | -14.<br>84       | -15.<br>87       | 8.55                    |

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