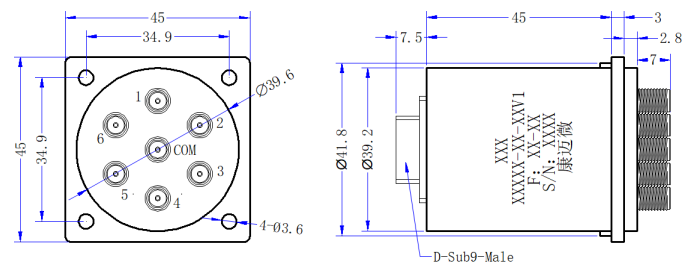
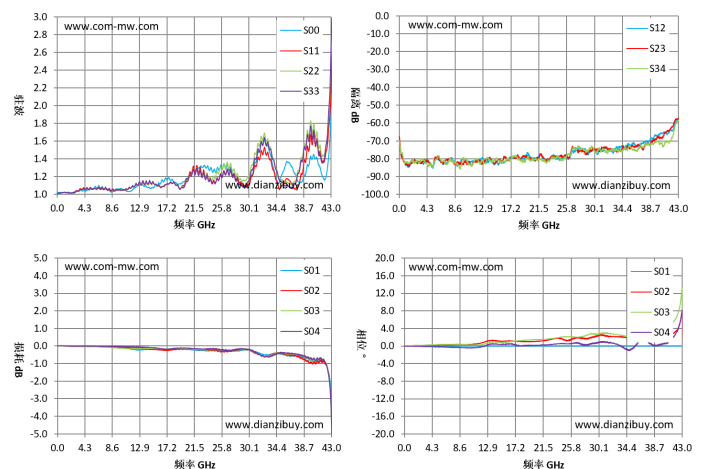


**Tech specifications**

| Parameters | Min                               | Typical | Max                                   | Units |
|------------|-----------------------------------|---------|---------------------------------------|-------|
| Frequency  | DC                                | ~       | 40                                    | GHz   |
| IL         |                                   |         | 0.3@6GHz;<br>0.5@18GHz;<br>1.25@40GHz | dB    |
| Isolation  | 70@6GHz;<br>60@18GHz;<br>50@40GHz |         |                                       | dB    |
| VSWR       |                                   |         | 1.3@6GHz;<br>1.5@18GHz;<br>2@40GHz    |       |

**Other parameters**

| Switch way               | SP6T                             |
|--------------------------|----------------------------------|
| Control                  | TTL Control                      |
| Switching characteristic | Mechanical reflective switch     |
| Switch time              | 15ms                             |
| Connector                | 2.92-K                           |
| Connector material       | Stainless steel                  |
| Impedance                | 50Ω                              |
| Power Capacity           | 30W@6GHz; 15W@18GHz;<br>5W@40GHz |
| Working voltage          | +24V                             |
| Working current          | 160mA                            |
| Operation Temp.          | -40~+85°C Design assurance       |
| Switching Lifetime       | 1 million Cycles                 |
| Other                    | Control port: D-Sub9 Male        |

**Reference picture****Configuration(mm)****Typical test curve**

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

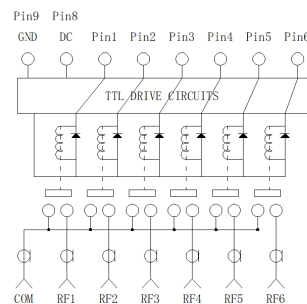
## Port Definition

|                |                  |
|----------------|------------------|
| Common port    | COM              |
| Branching port | 1, 2, 3, 4, 5, 6 |

## Typical test data

| Frequency(GHz) | S00<br>VS<br>WR | S11<br>VS<br>WR | S01<br>IL<br>dB | S12<br>ISO<br>dB | S03<br>Pha<br>se<br>(°) |
|----------------|-----------------|-----------------|-----------------|------------------|-------------------------|
| 0.1            | 1.0<br>1        | 1               | -0.<br>01       | -70.<br>91       | -0.0<br>2               |
| 6              | 1.0<br>8        | 1.0<br>6        | -0.<br>04       | -80.<br>23       | 0.36                    |
| 9              | 1.0<br>3        | 1.0<br>4        | -0.<br>18       | -83.<br>78       | 0.38                    |
| 12             | 1.0<br>6        | 1.0<br>8        | -0.<br>2        | -81.<br>74       | 0.32                    |
| 18             | 1.1<br>7        | 1.1<br>2        | -0.<br>28       | -79.<br>34       | 1.22                    |
| 22             | 1.3             | 1.2<br>9        | -0.<br>36       | -78.<br>97       | 1.55                    |
| 25             | 1.2<br>6        | 1.1<br>7        | -0.<br>43       | -80.<br>21       | 2.09                    |
| 34             | 1.2<br>8        | 1.2<br>6        | -0.<br>63       | -74.<br>14       | 2.29                    |
| 40             | 1.3<br>9        | 1.5<br>6        | -0.<br>86       | -66.<br>84       | 5.58                    |

## Control circuit diagram



## 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.                    |
| 3 | D-Sub9 control pin definition, see product label for details.                                |