

## Features

- V-band, 49.8 GHz to 65 GHz Frequency Range
- WR15 Waveguide Interface
- 1.85mm Female RF Interface
- Full Series Coverage, Full Bandwidth
- Low Insertion Loss, Low VSWR
- Customization Supported

## Applications

|                         |           |                       |       |
|-------------------------|-----------|-----------------------|-------|
| Test Benches            | Satellite | Military and Space    | Radar |
| Microwave Radio Systems |           | Communication Systems |       |

## Description

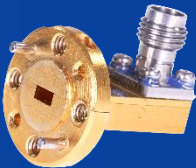
Waveguide-to-coaxial adapter is a key microwave passive component used to connect waveguide transmission systems and coaxial transmission systems. It efficiently accomplishes mode conversion and impedance matching between two different transmission line structures, ensuring minimal loss and lowest reflection during the microwave signal transition. The WR15 waveguide-to-coaxial adapter is a full-bandwidth product with low insertion loss and low reflection.

## Technical Specifications

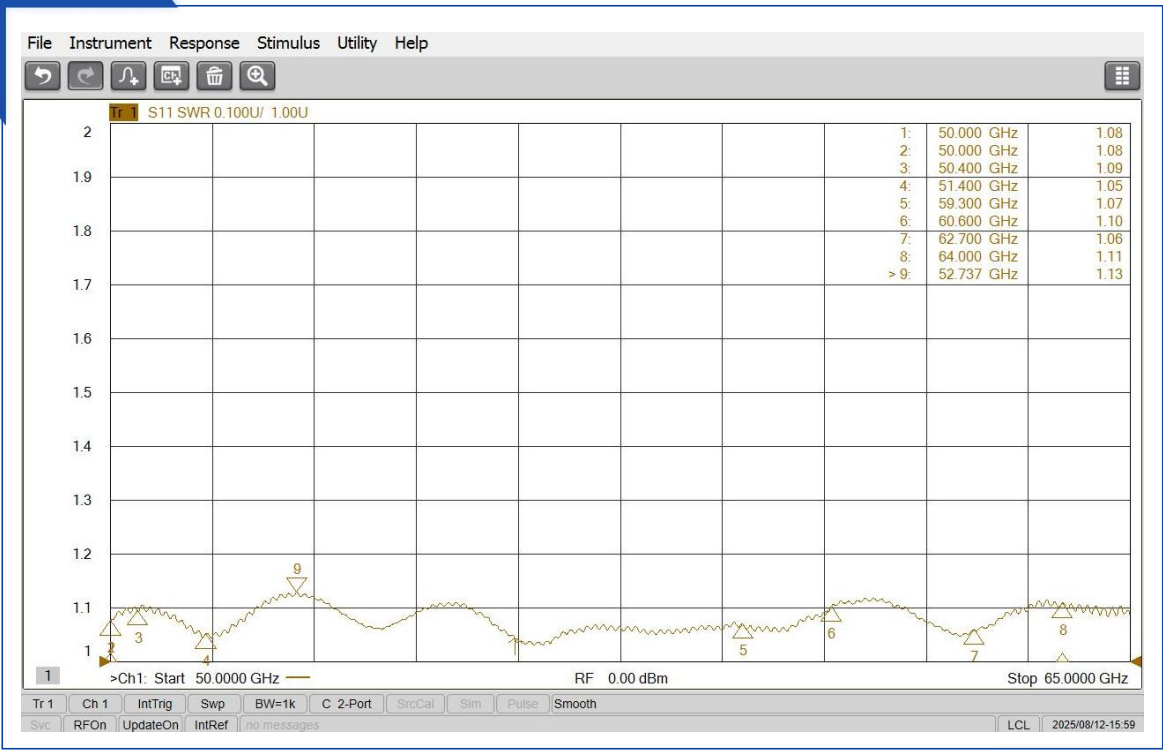
| Parameters                  | Min. | Typ. | Max.  | Units |
|-----------------------------|------|------|-------|-------|
| Frequency Range             | 49.8 |      | 65    | GHz   |
| Insertion Loss              |      |      | 0.15  | dB    |
| VSWR                        |      |      | 1.2:1 |       |
| Operating Temperature Range | -55  |      | +85   | °C    |
| Weight                      |      | 15   |       | g     |

### Notes:

Values at 25°C, sea level.

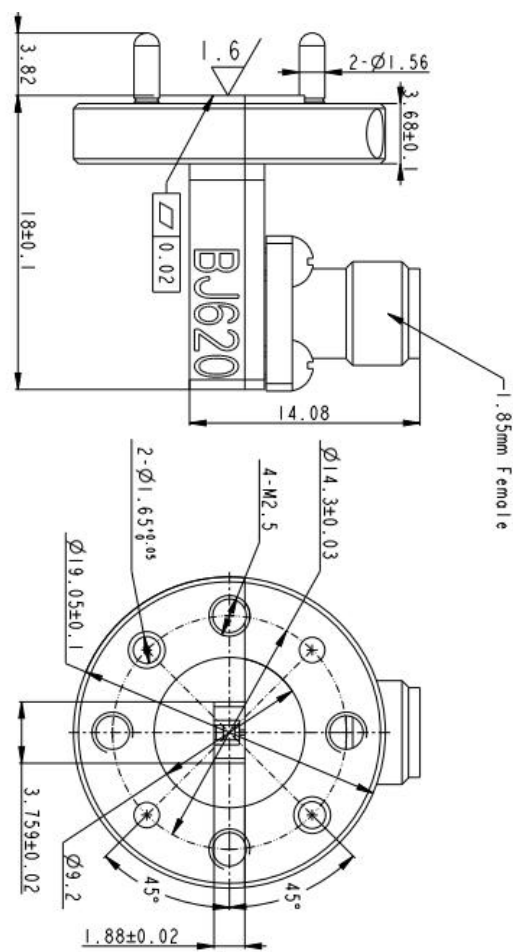


## Typical Performances

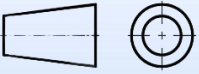


VSWR

Outline Drawing:



- NOTES:**
- 1.UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  - 2.ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
  - 3.DIMENSIONS ARE IN mm.

|                                                                                                                                         |                                   |           |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------|---------------------------------------------------------------------------------------|
|  西安星航通信科技有限公司<br>XI'AN SATNAVCOM TECHNOLOGY CO., LTD. | PART NAME                         |           |                                                                                       |
|                                                                                                                                         | WR15 Waveguide to Coaxial Adapter |           |                                                                                       |
|                                                                                                                                         | JL2.961.0040                      | REV       | DATE                                                                                  |
| Tel: +86 135 1916 6509                                                                                                                  |                                   | V1.0      | 2026.4.9                                                                              |
| Website: www.mwglobe.com                                                                                                                |                                   | SCALE 1:1 |  |
| E-Mail: sales@mwglobe.com                                                                                                               |                                   |           |                                                                                       |