

## Waveguide to Coax Adapter, Right Angle WR-19/1.85mm Male/40-60GHz

**Model: TL-19WCA1.85R**

The TL-19WCA1.85R is right angle waveguide to coax adapters that cover the frequency range of 40 to 60 GHz. It is designed for an efficient transition between the rectangular waveguide and 1.85 mm coax connector.

### Features:

- Operating Frequency 40 to 60GHz
- Lower Insertion Loss and VSWR
- Instrumentation Grade
- DC Short Circuit

### Applications:

- Test Lab
- Instrumentations
- Sub-assemblies



### Electrical Characteristics:

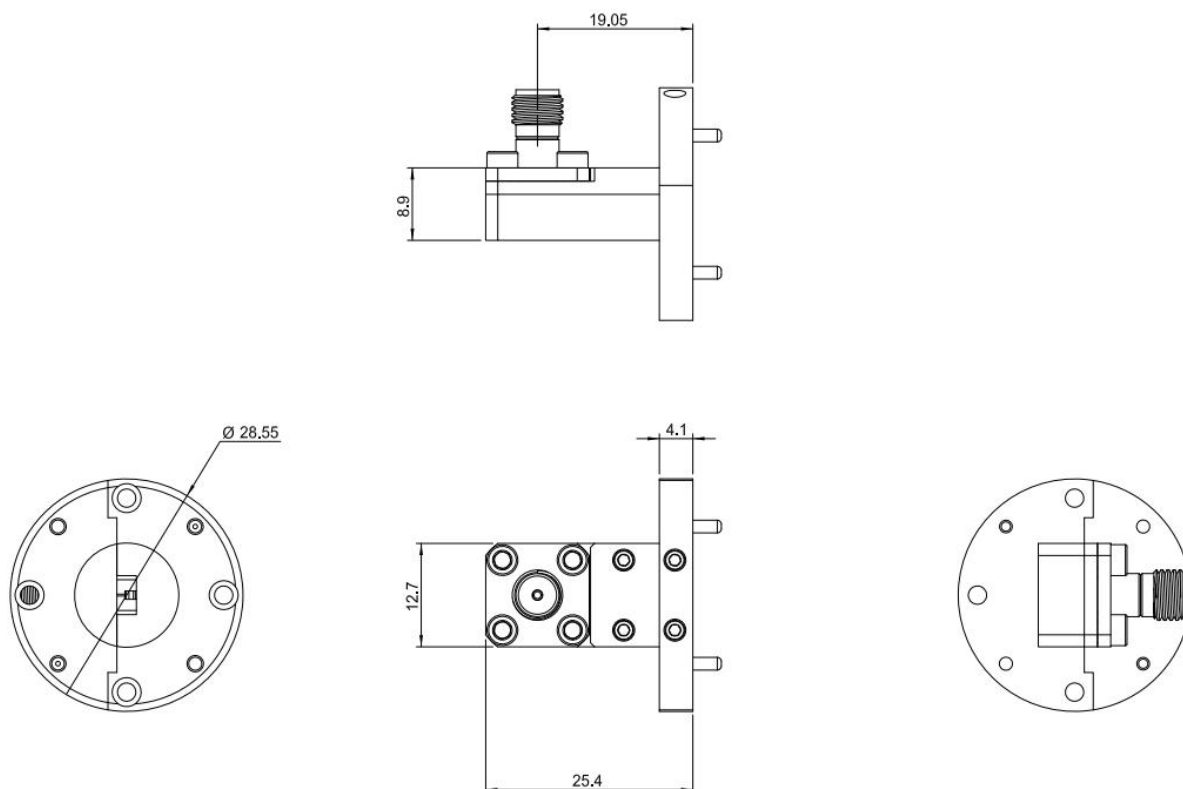
| Parameter       | Min | Typ | Max | Units |
|-----------------|-----|-----|-----|-------|
| Frequency Range | 40  |     | 60  | GHz   |
| Insertion Loss  |     | 0.4 | 0.8 | dB    |
| VSWR            |     |     | 1.6 | :1    |
| Power Handling  |     |     | 10  | W     |

### Physical Characteristics:

| Parameter      | Description             | Units |
|----------------|-------------------------|-------|
| Material       | Copper                  |       |
| Finish         | Gold Plated, Blue paint |       |
| Coax Connector | 1.85mm Female           |       |
| Waveguide      | WR19/UG-383/U-M         |       |

## Outline Drawing:

Unit:mm; Tolerance:±0.1mm

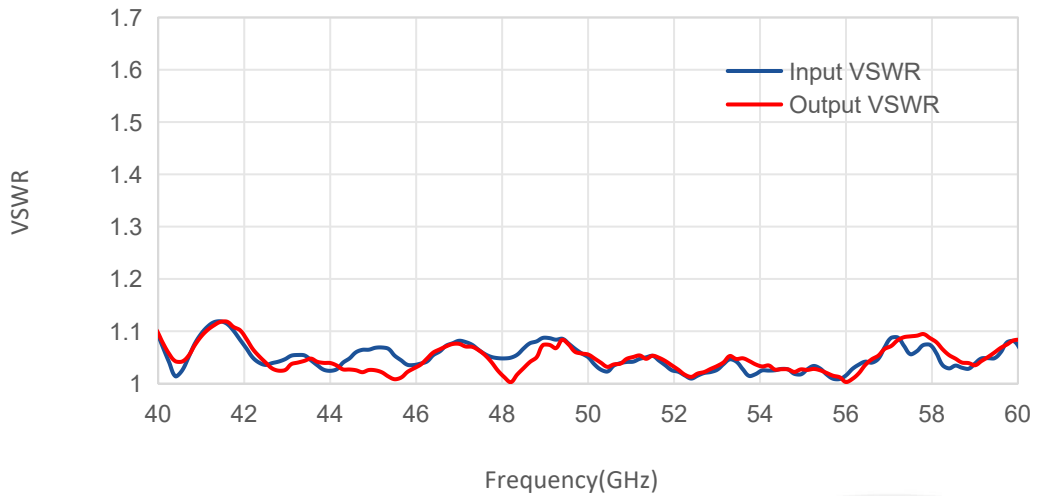


## Ordering Information:

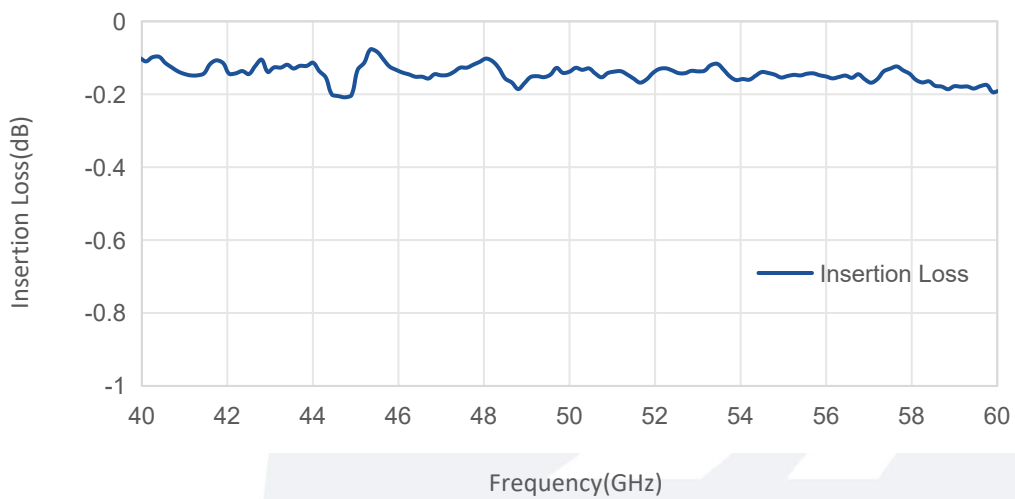
| Base Number   | Description                                                         | Revision |
|---------------|---------------------------------------------------------------------|----------|
| TL-19WCA1.85R | Waveguide to Coax Adapter, Right Angle<br>WR19/1.85mm Male,40-60GHz | Rev.1.1  |

## Typical Performance Data(Tested back-to-back):

### VSWR vs Frequency



### Insertion Loss vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.