

## Waveguide Faraday Isolator

110-170GHz/2.7dB,Insertion Loss/20dB,Isolation

Model: TLI-110170-06

The TLI-110170-06 is a waveguide faraday isolator that operates from 110 to 170 GHz. The isolator offers 20 dB minimum isolation and 2.7 dB maximum insertion loss. The input and output ports are WR-6.5 waveguides.

### Features:

- Frequency range: 110-170GHz
- High Isolation
- Compact Form Factor
- Resistant to Stray Magnetic Fields

### Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

### Electrical Characteristics:

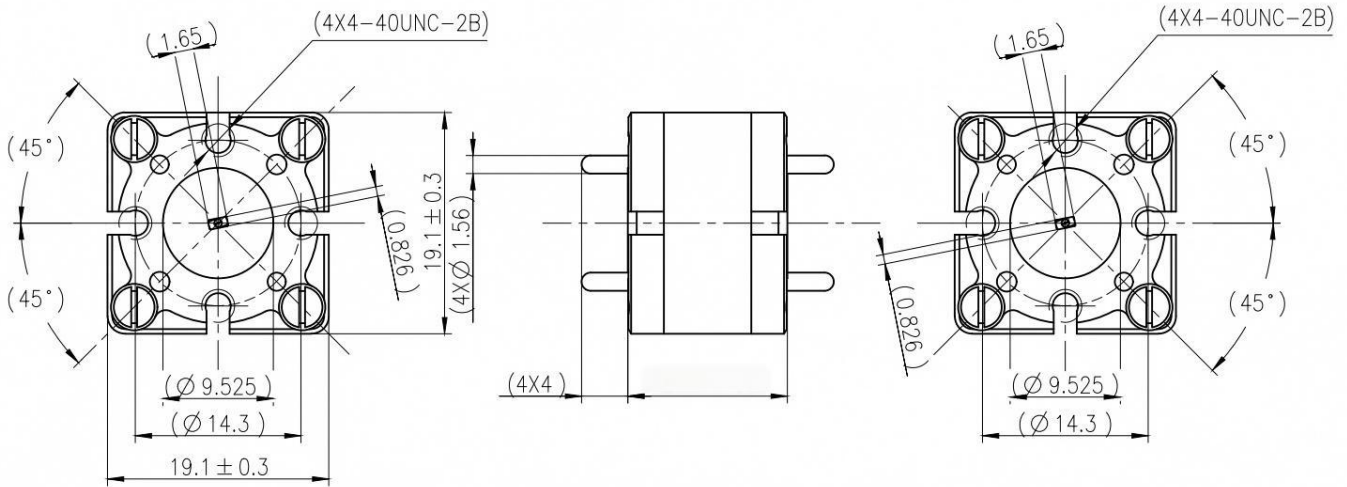
| Parameter       | Min | Typ | Max  | Units |
|-----------------|-----|-----|------|-------|
| Frequency range | 110 |     | 170  | GHz   |
| Insertion Loss  |     |     | 2.7  | dB    |
| Isolation       | 20  |     |      | dB    |
| VSWR            |     |     | 1.45 | :1    |

### Mechanical Specifications:

| Parameter               | Value           | Units |
|-------------------------|-----------------|-------|
| Operating Temperature   | 25              | °C    |
| Input /Output Connector | WR-6.5/UG-387/U |       |

## Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

## Ordering Information:

| Base Number   | Description                                                                            | Revision |
|---------------|----------------------------------------------------------------------------------------|----------|
| TLI-110170-06 | Waveguide Faraday Isolator, 110-170GHz,<br>Insertion loss: 2.7dB, Port Isolation: 20dB | Rev.1.0  |