Suzhou Talent Microwave,Inc
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# Waveguide Bandpass Filter

## WR-08/108-116GHz

## Model: TLBF-108116-50-08

TLBF-108116-50-08 is a waveguide bandpass filter with a passband frequency from 108 to 116 GHz and a rejection frequency from DC to 104 GHz and 120 to 150 GHz. The maximum insertion loss of the filter is 2 dB and the minimum rejection is 50 dBc. The input and output port configuration offers an inline structure with WR-08 waveguides and UG-387/U-M anti-cocking flanges.

## Features:

- Passband Frequency Range 108 to 116 GHz
- Lower Cost
- Low Insertion Loss
- High Rejection

## Applications:

- Communicatin Systems
- Radar Systems
- Sub-assemblies

## Electrical Characteristics:

| Parameter | | Min | Typ | Max | Units |
|---|---|---|---|---|---|
| Passband Frequency range | | 108 | | 116 | GHz |
| Passband Width | | | 8 | | GHz |
| Input/Output VSWR | | | 1.3 | | :1 |
| Passband Insertion Loss | | | | 2 | dB |
| Rejection | @DC-104 GHz | 50 | | | dBc |
| | @120-150 GHz | 50 | | | |

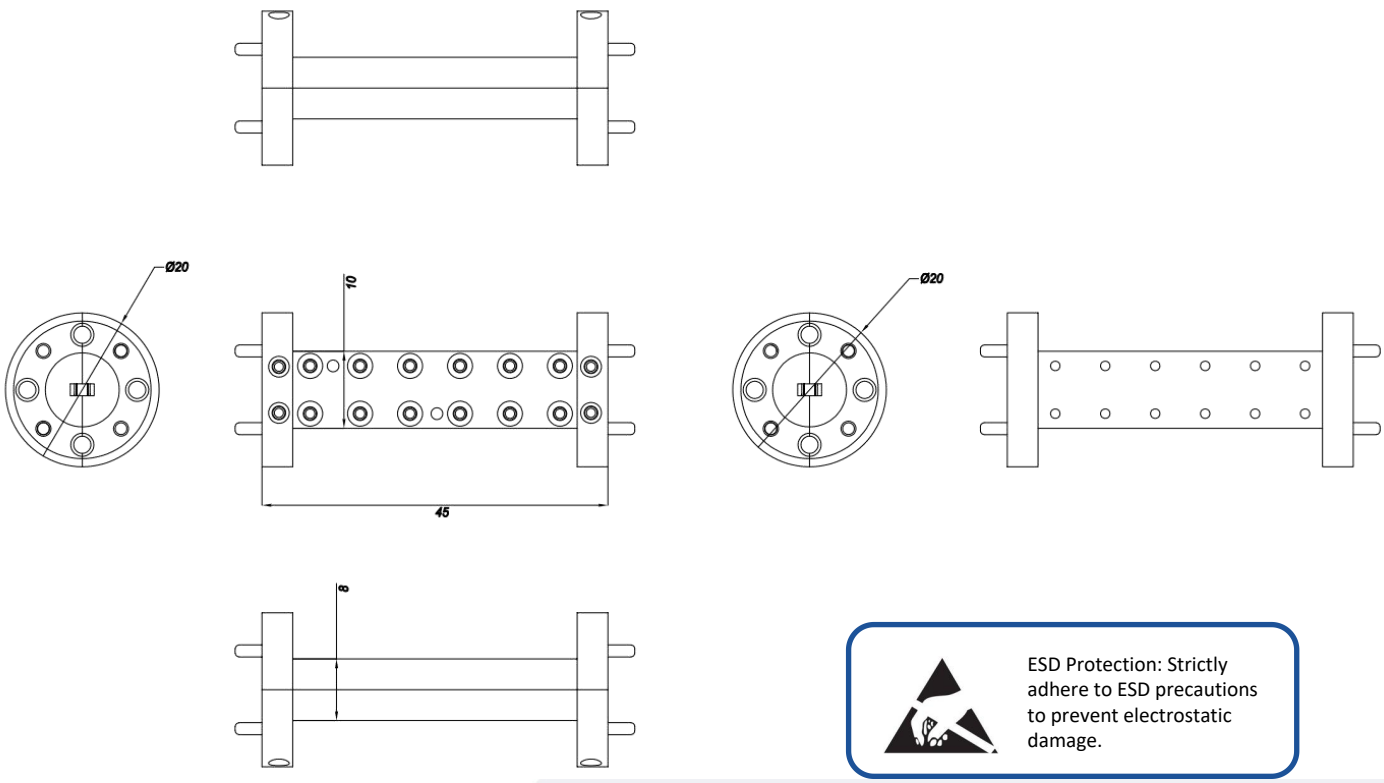
## Envrionmental And Physical Characteristics:

| Parameter | Description | Units |
|---|---|---|
| Operating Temerature | -20 to +55 | ℃ |
| Storage Temerature | -20 to +55 | ℃ |
| Material | Aluminum | |
| Finish | Conductive Coating, Natural Finish | |
| Waveguide | WR-08/UG-387/U-M | |

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## Outline Drawing:

Unit:mm; Tolerance:±0.1mm




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

## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TLBF-108116-50-08 | Waveguide Bandpass Filter,108-116GHz, Insertion Loss: 2dB, Rejection: 50dBc@DC-104GHz&120-150GHz,WR-08/UG-387/U-M | Rev.1.0 |