Suzhou Talent Microwave,Inc
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# Waveguide Bandpass Filter

## WR-10/83-110GHz

## Model: TLBF-83110-30

TLBF-83110-30 is a waveguide bandpass filter with a passband frequency from 83 to 110 GHz and a rejection frequency from 79 to 81 GHz. The nominal insertion loss of the filter is 2.0 dB and the minimum rejection is 30 dB.

## Features:

- Passband Frequency Range 83 to 110 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 | | 83 | | 110 | GHz |
| Passband Width | | | 27 | | GHz |
| Return Loss | | | -18 | -15 | dB |
| Passband Insertion Loss | | | 1 | 2 | dB |
| Rejection | @79-81GHz | 30 | | | dB |
| | @DC-79GHz | 60 | | | |

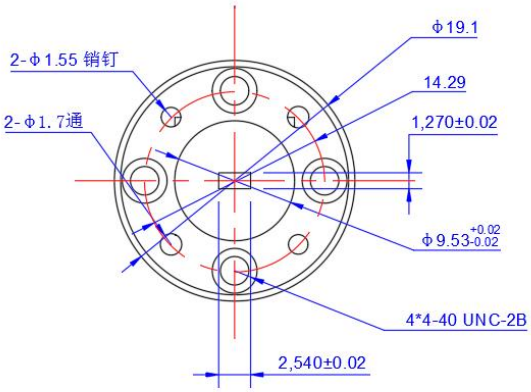
## Envrionmental And Physical Characteristics:

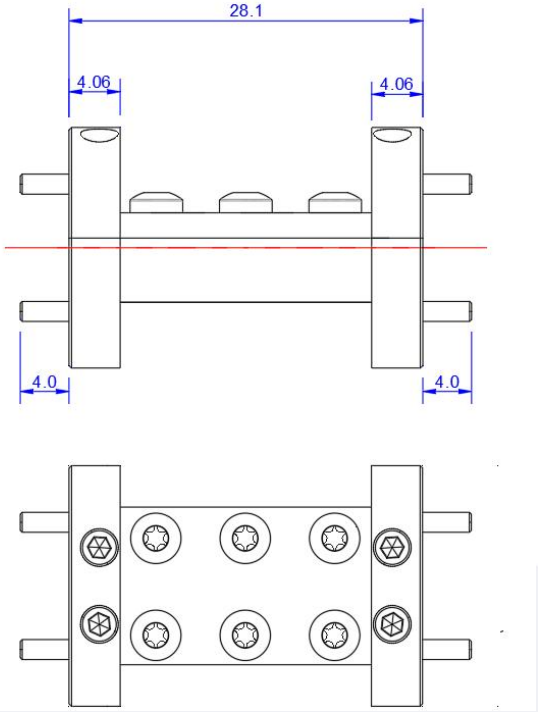
| Parameter | Value | Units |
|---|---|---|
| Operating Temerature | -40 to +85 | ℃ |
| Storage Temerature | -40 to +85 | ℃ |
| Material | Aluminium | |
| Finish | Comductive oxidation | |
| Waveguide | WR-10/UG-387/U-M | |
| Length | 38.1 | mm |

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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-83110-30 | Waveguide Bandpass Filter,83-110GHz,Insertion Loss:1.0dB, Rejection:30dB@79-81GHz,WR-10/UG-387/U-M | Rev.1.1 |