

## Waveguide Bandpass Filter

WR-10/80-88GHz

Model: TLBF-080088-40-10

TLBF-080088-40-10 is a waveguide bandpass filter with a passband frequency from 80 to 88 GHz and a rejection frequency from 70 to 76 GHz and 92 to 110 GHz. The nominal insertion loss of the filter is 2 dB and the typical rejection is 40 dBc. The input and output port configuration offers an inline structure with WR-10 waveguides and UG-387/U-M anti-cocking flanges.

### Features:

- Passband Frequency Range 80 to 88 GHz
- Lower Cost
- Low Insertion Loss
- High Rejection

### Applications:

- Communicatin Systems
- Radar Systems
- Sub-assemblies

### Electrical Characteristics:

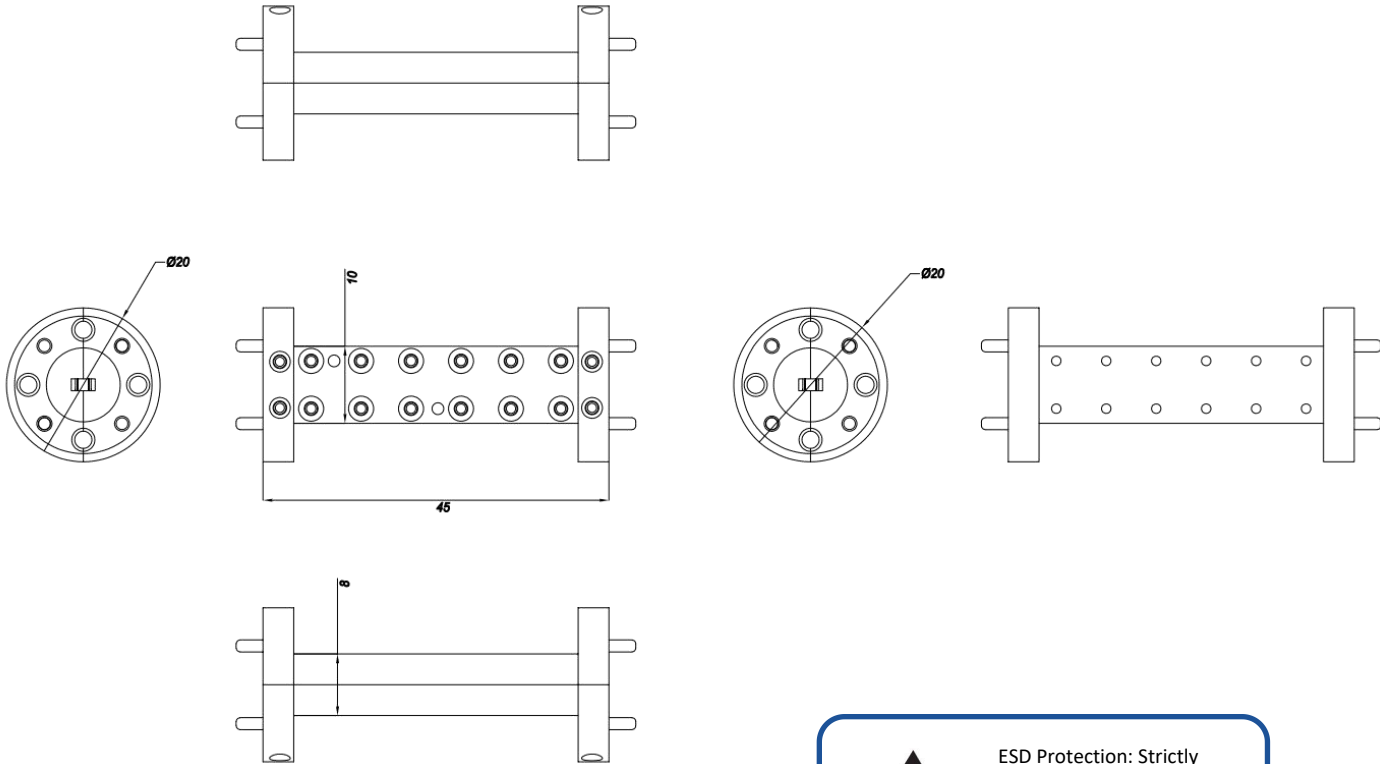
| Parameter                |             | Min | Typ  | Max | Units |
|--------------------------|-------------|-----|------|-----|-------|
| Passband Frequency range |             | 80  |      | 88  | GHz   |
| Passband Width           |             |     | 8    |     | GHz   |
| Input/Output VSWR        |             |     | 1.25 |     | :1    |
| Passband Insertion Loss  |             |     |      | 2   | dB    |
| Rejection                | @70-76 GHz  | 40  |      |     | dBc   |
|                          | @92-110 GHz | 40  |      |     |       |

### Envrionmental And Physical Characteristics:

| Parameter            | Description                        | Units |
|----------------------|------------------------------------|-------|
| Operating Temerature | -20 to +55                         | °C    |
| Storage Temperature  | -20 to +55                         | °C    |
| Material             | Aluminum                           |       |
| Finish               | Conductive Coating, Natural Finish |       |
| Waveguide            | WR-10/UG-387/U-M                   |       |

**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-080088-40-10 | Waveguide Bandpass Filter,80-88GHz, Insertion Loss: 2dB, Rejection: 40dBc@ 70-76GHz&92-110GHz,WR-10/UG-387/U-M | Rev.1.0  |