

## Waveguide Bandpass Filter

WR-12/75-85GHz

Model: TLBF-075085-45

TLBF-075085-45 is a waveguide bandpass filter with a passband frequency from 75 to 85 GHz and a rejection frequency from 60 to 70 GHz and 90 to 110 GHz. The nominal insertion loss of the filter is 2 dB and the typical rejection is 45 dBc. The input and output port configuration offers an inline structure with WR-12 waveguides and UG-387/U-M anti-cocking flanges.

### Features:

- Passband Frequency Range 75 to 85 GHz
- Lower Cost
- Low Insertion Loss
- High Rejection

### Applications:

- Communicatin Systems
- Radar Systems
- Sub-assemblies

### 电气特性 Electrical Characteristics:

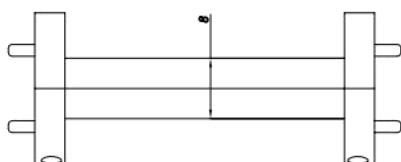
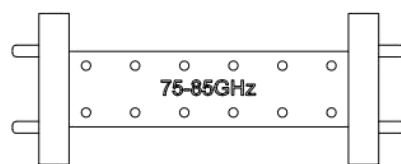
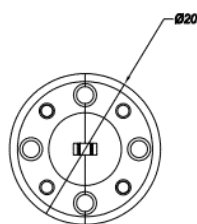
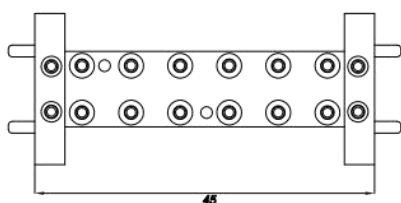
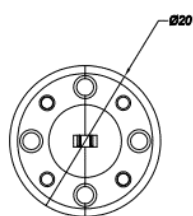
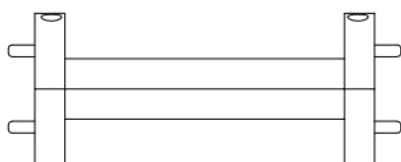
| 参数 Parameter                    |               | Min | Typ | Max | 单位 Units |
|---------------------------------|---------------|-----|-----|-----|----------|
| 通带频率范围 Passband Frequency range |               | 75  |     | 85  | GHz      |
| 通带带宽 Passband Width             |               |     | 10  |     | GHz      |
| 输入/输出驻波 Input/Output VSWR       |               |     | 1.3 |     | :1       |
| 通带插损 Passband Insertion Loss    |               |     |     | 2   | dB       |
| 带外抑制 Rejection                  | @ 75-80 GHz   | 45  |     |     | dBc      |
|                                 | @ 100-110 GHz | 45  |     |     |          |

### 环境和机械特性 Envrionmental And Physical Characteristics:

| 类型 Description            | 参数 Parameter                       | 单位 Units |
|---------------------------|------------------------------------|----------|
| 操作温度 Operating Temerature | -20 To +55                         | °C       |
| 存储温度 Storage Temerature   | -20 to +55                         | °C       |
| 材质 Material               | Aluminum                           |          |
| 表面处理 Finish               | Conductive Coating, Natural Finish |          |
| 波导 Waveguide              | WR-12/UG-387/U-M                   |          |

## 外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

## 订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description                                                                                                         | 版本号 Revision |
|------------------|------------------------------------------------------------------------------------------------------------------------|--------------|
| TLBF-075085-45   | Waveguide Bandpass Filter, 75-85GHz, Insertion Loss: 2 dB, Rejection: 45 dBc @ 60-70GHz & 90-110 GHz, WR-12/UG-387/U-M | Rev.1.0      |