

## Waveguide Bandpass Filter, Ka Band 35.5 to 36 GHz

### Description:

**Model SWF-36315240-28-B1** is a Ka band waveguide bandpass filter with a passband frequency from 35.5 to 36 GHz as well as rejection frequencies from DC to 34 GHz and 37.5 to 45 GHz. The nominal insertion loss of the bandpass filter is 1.5 dB and the typical rejection is 40 dB. Since both low end and high end cut off frequencies can be selected by modifying the design, custom designs are available under different model numbers.



### Features:

- Low Cost
- Low Insertion Loss
- High Rejection

### Applications:

- Communication Systems
- Radar Systems
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	35.5 GHz		36 GHz
Passband Insertion Loss		1.5 dB	
Passband Ripple		±0.25 dB	
Rejection Frequency, Low Side	DC GHz		34 GHz
Rejection Frequency, High Side	37.5 GHz		45 GHz
Rejection		40 dB	
Passband Return Loss		14 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

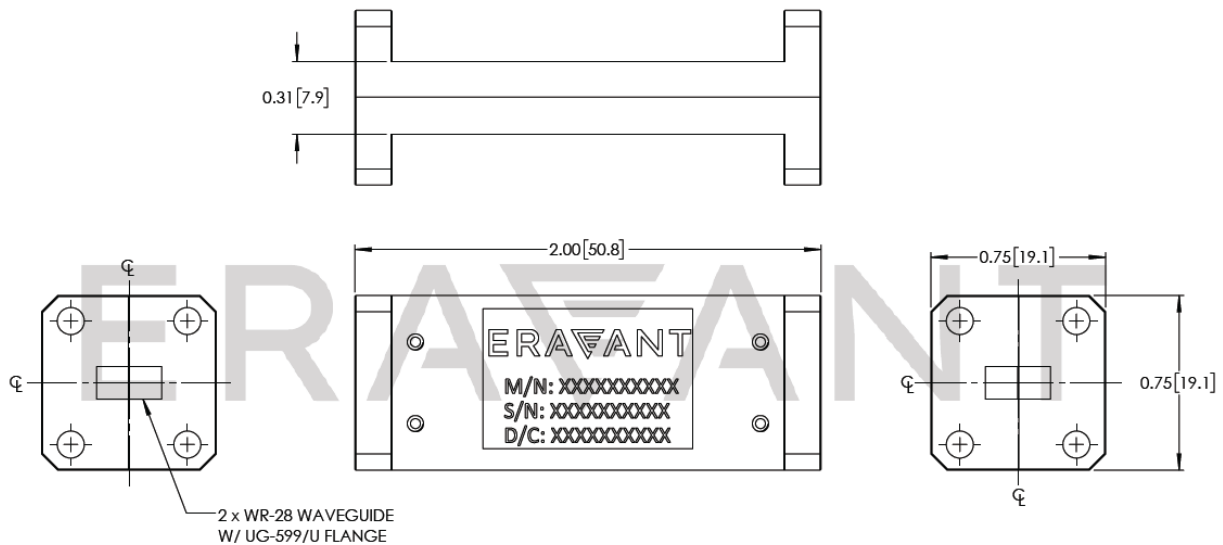
### Mechanical Specifications:

Item	Specification
Waveguide	WR-28 Waveguide with UG-599/U Flange
Size	2.00" (L) X 0.75" (W) X 0.75" (H)
Material	Aluminum
Finish	Gold Plated
Weight	3.0 Oz
Outline	WF-BA



## Waveguide Bandpass Filter, Ka Band 35.5 to 36 GHz

**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches [millimeters])



**Note:**

- Eravant reserves the right to change the information presented without notice.

**Caution:**

- Exceeding absolute maximum ratings shown will damage the device.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

ERA<sup>Δ</sup>VANT

