

## WR28 Waveguide Band Pass Filter 30.9 – 31.5GHz



Note: The photo is for illustration only.  
Please refer to the outline drawing.

### Features

- High Rejection
- Low Insertion Loss
- Excellent Temperature Stability
- Compact Size

### Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Test & Measurement

### Electrical Specifications, $T_A = 25\text{ }^\circ\text{C}$

Parameters		Min.	Typ.	Max.	Units
Passband Frequency		30.9		31.5	GHz
Insertion Loss				1.0	dB
VSWR				1.25	:1
Rejection	@ 30.3GHz	30			dB
	@ 32.2GHz	30			dB
Weight		-----			ounces
Waveguide Type		WR-28			
Material		Copper			

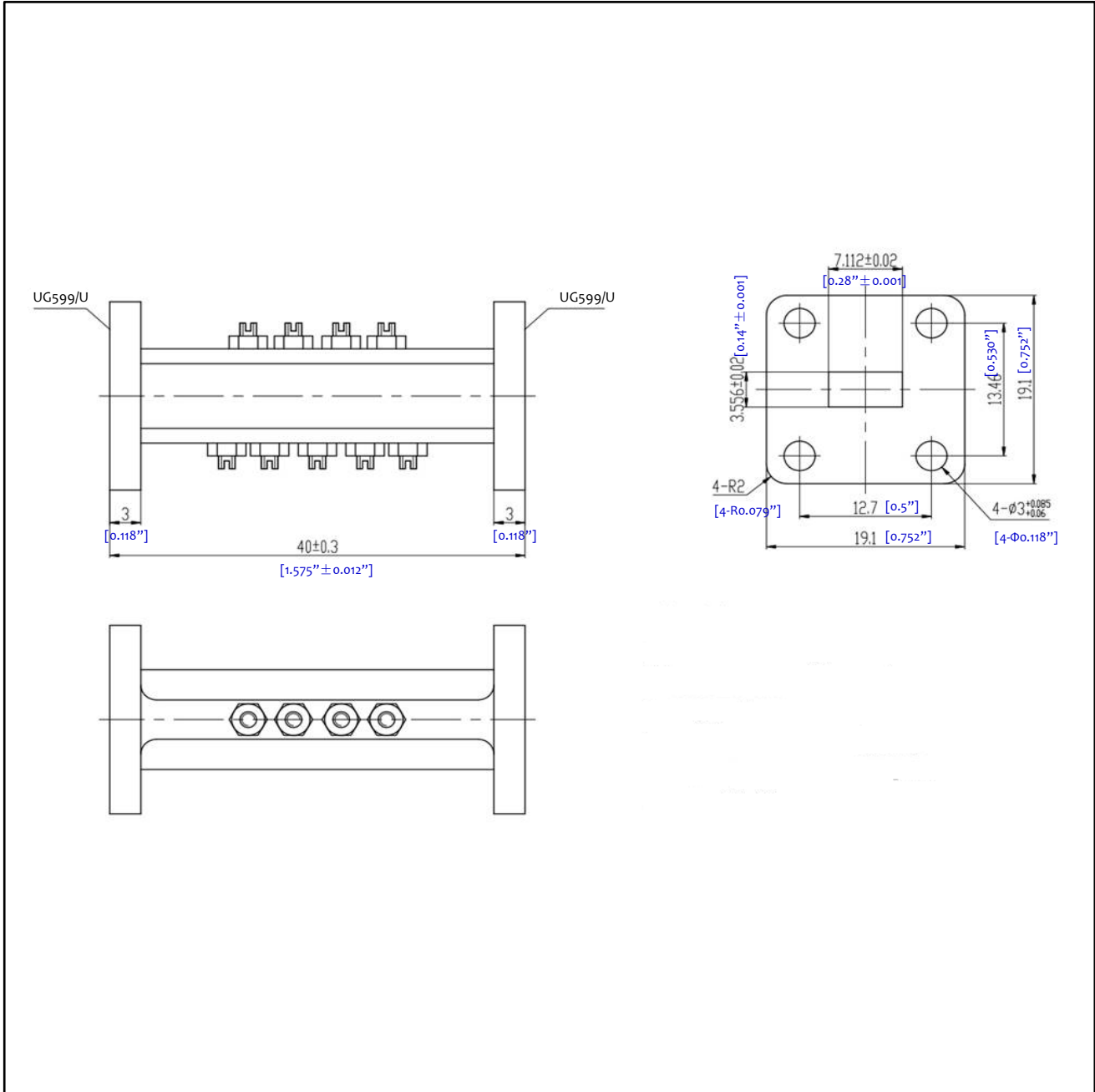
**Waveguide Band pass Filter 30.9 – 31.5GHz**

**Environmental Specifications and Test Standards**

Parameter	Description
Operational Temperature	-20°C~+70°C (Case Temperature)
Storage Temperature	-40°C~+85°C
Thermal Shock	-20°C → +70°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +70°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

**Outline Drawing:**

All Dimensions in mm [inches]



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