

## Waveguide WR75 Magic Tee Power Splitter / Combiner 10 ~ 15GHz 10% Bandwidth



### Features

- High Power Waveguide Combiner
- Low Insertion Loss
- Excellent Temperature Stability

### Typical Applications

- Wireless Infrastructure
- RF Microwave & VSAT
- Military & Aerospace
- Test Instrument

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

Parameters		Min.	Typ.	Max.	Units
Frequency Range 10% Bandwidth		10		15	GHz
Insertion Loss				0.8	dB
VSWR				1.2	: 1
Coupling			3		dB
Power Handling	Per Port When Combining	10			W
	When Dividing	20			W
Peak Power (8 $\mu$ s Pulse Width)		1			KW
Impedance		50			Ohms
Waveguide Type		Rectangular Waveguide WR75			
Flange type		COVER (Other type available)			
Flange Holes		Through			
Basis-material		Aluminum or Cuprum Alloyed			
Internal Body Finish		Silver Plated chromate or conversion			
External Body Finish		Body painted with gray/black epoxy enamel			

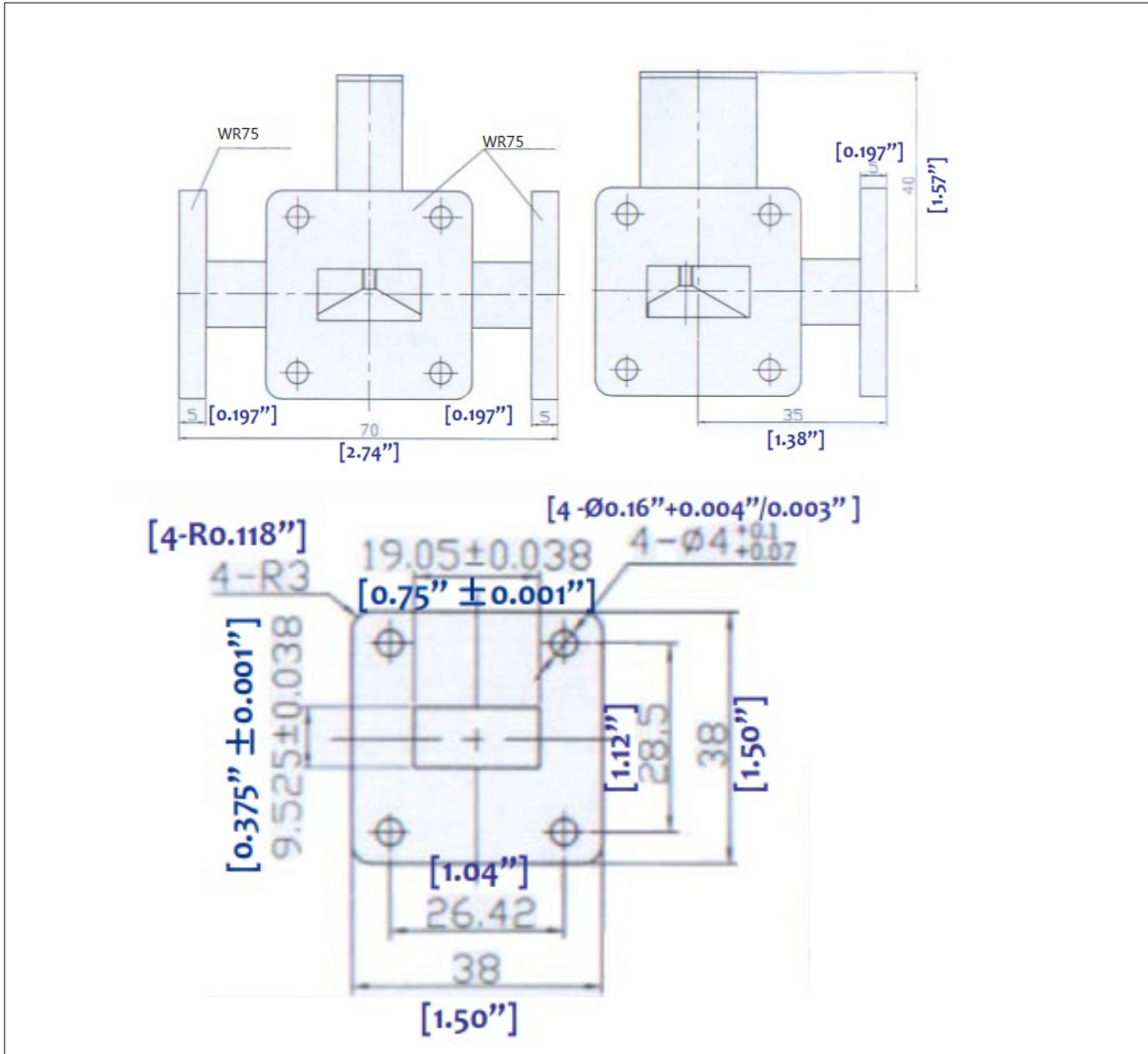
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**Environmental Specifications and Test Standards**

Parameter	Description
Operational Temperature	-40°C~+85°C
Storage Temperature	-60°C~+125°C
Thermal Shock	-40°C → +85°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 +85°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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