

Waveguide WR28 Power Combiner 32 ~ 38GHz



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

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	32		38	GHz
Insertion Loss			0.7	dB
Isolation			17	dB
VSWR			1.6	: 1
Coupling		30		dB
Maximum Input Power Per Port (When used as a combiner)			32	W
Peak Power			200	W
Impedance	50			Ohms
Waveguide Type	WR28			
Flange type	UG599/U			
Material	Copper			

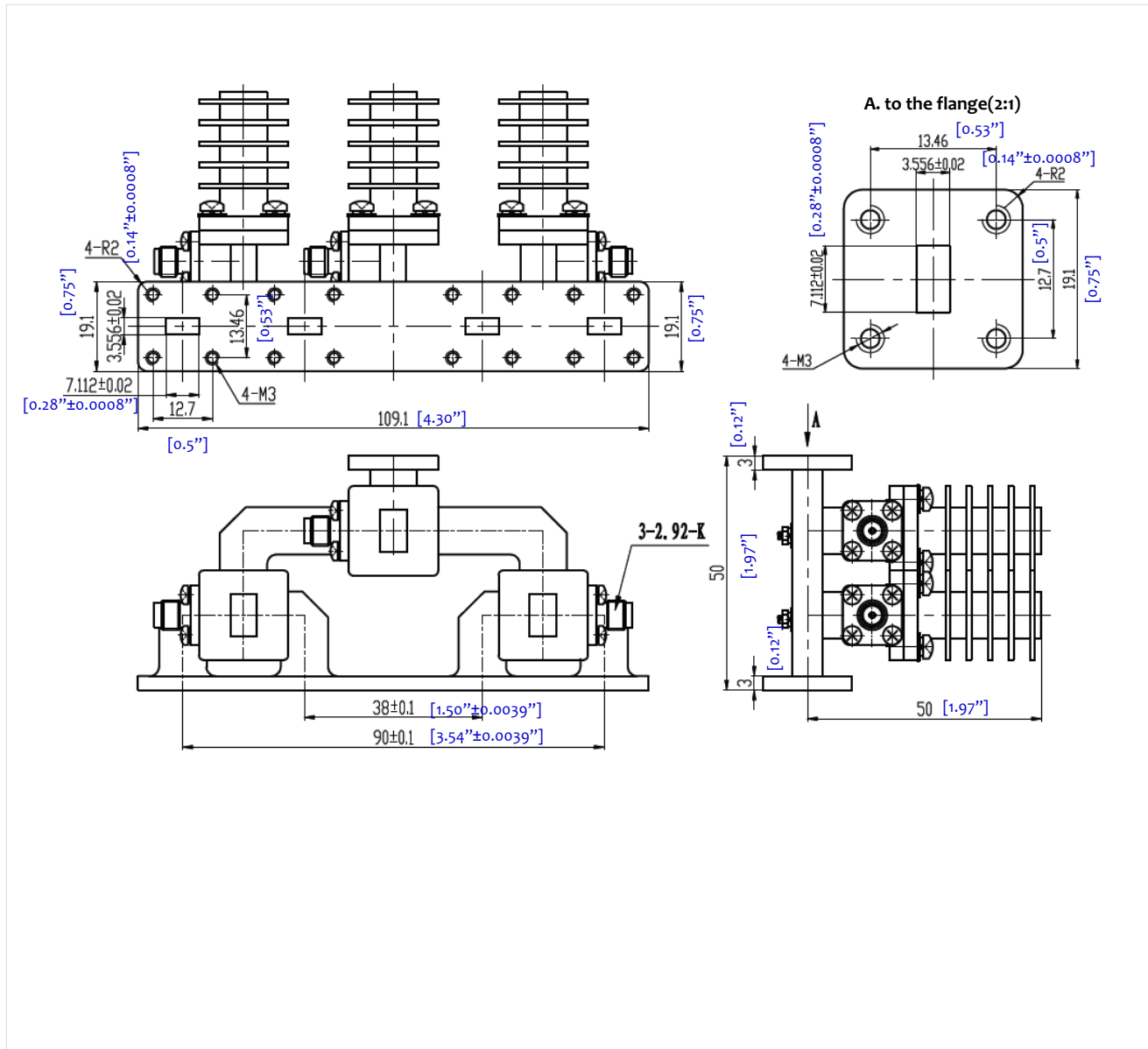
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Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°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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