

## Waveguide Coaxial Adapter 30.2mm Square Flange 15 - 22GHz



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

### Features

- Wide band operation
- Low VSWR within operational band
- Low Insertion Loss
- Stable performance over temperature

### Typical Applications

- Aerospace and military applications
- Test and Measurement
- Wireless infrastructure

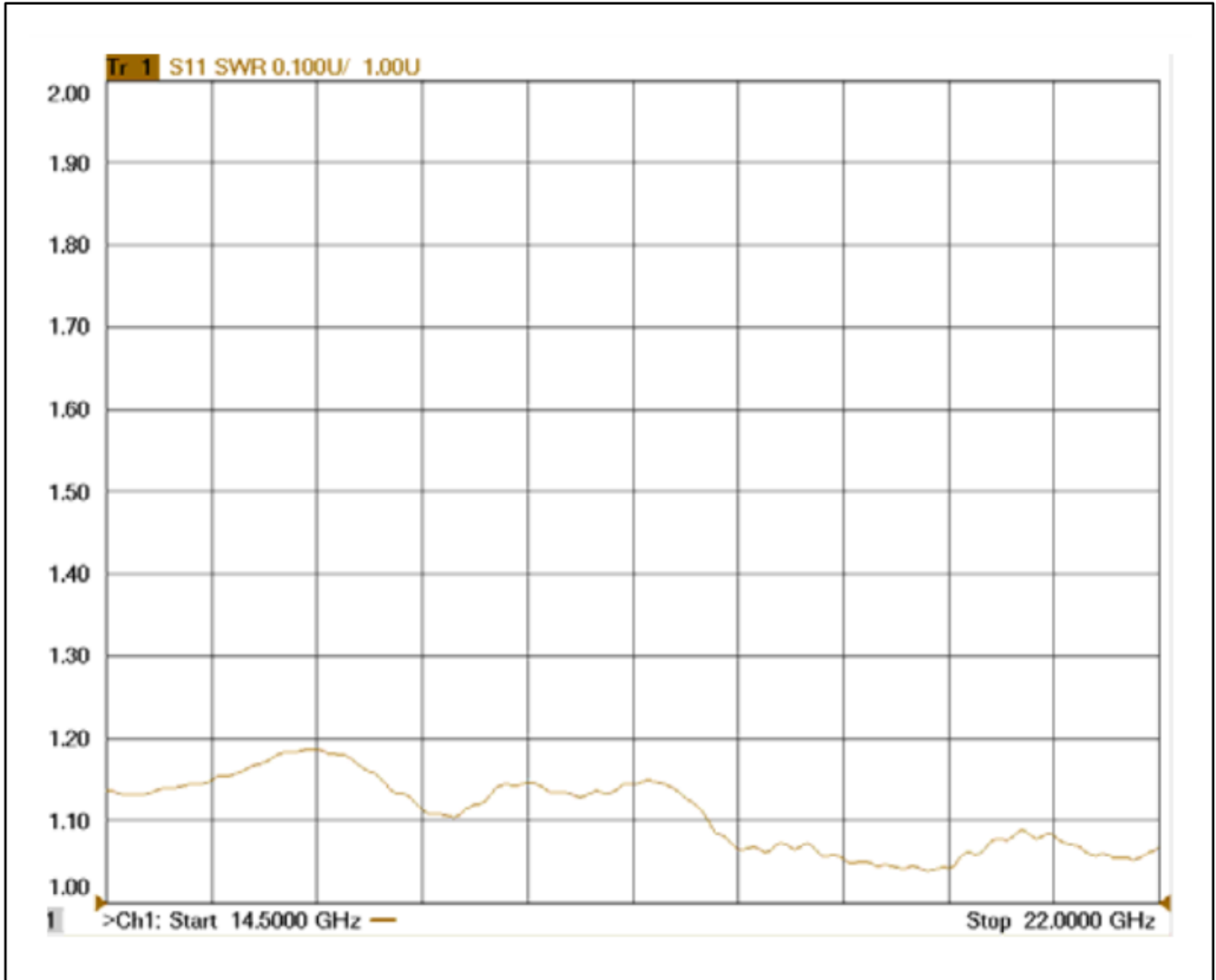
### Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	15-22			GHz
Insertion Loss			0.2	dB
VSWR			1.25	:1
Impedance	50			$\Omega$
Degree	90			$^\circ$
Input / Output Connectors	SMA			
Waveguide Type	Rectangular Waveguide WR51			
Flange type	30.2mm Square Flange - Please refer to drawing			
Flange Holes	Through			
Basis-Material	Brass			
Finish	Internal Body	Silver Plated chromate or conversion		
	External Body	Epoxy Enamel		

*Environmental Specifications and Test Standards*

Parameter	Description
Operational Temperature	-40°C~+85°C (Case Temperature)
Storage Temperature	-50°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)

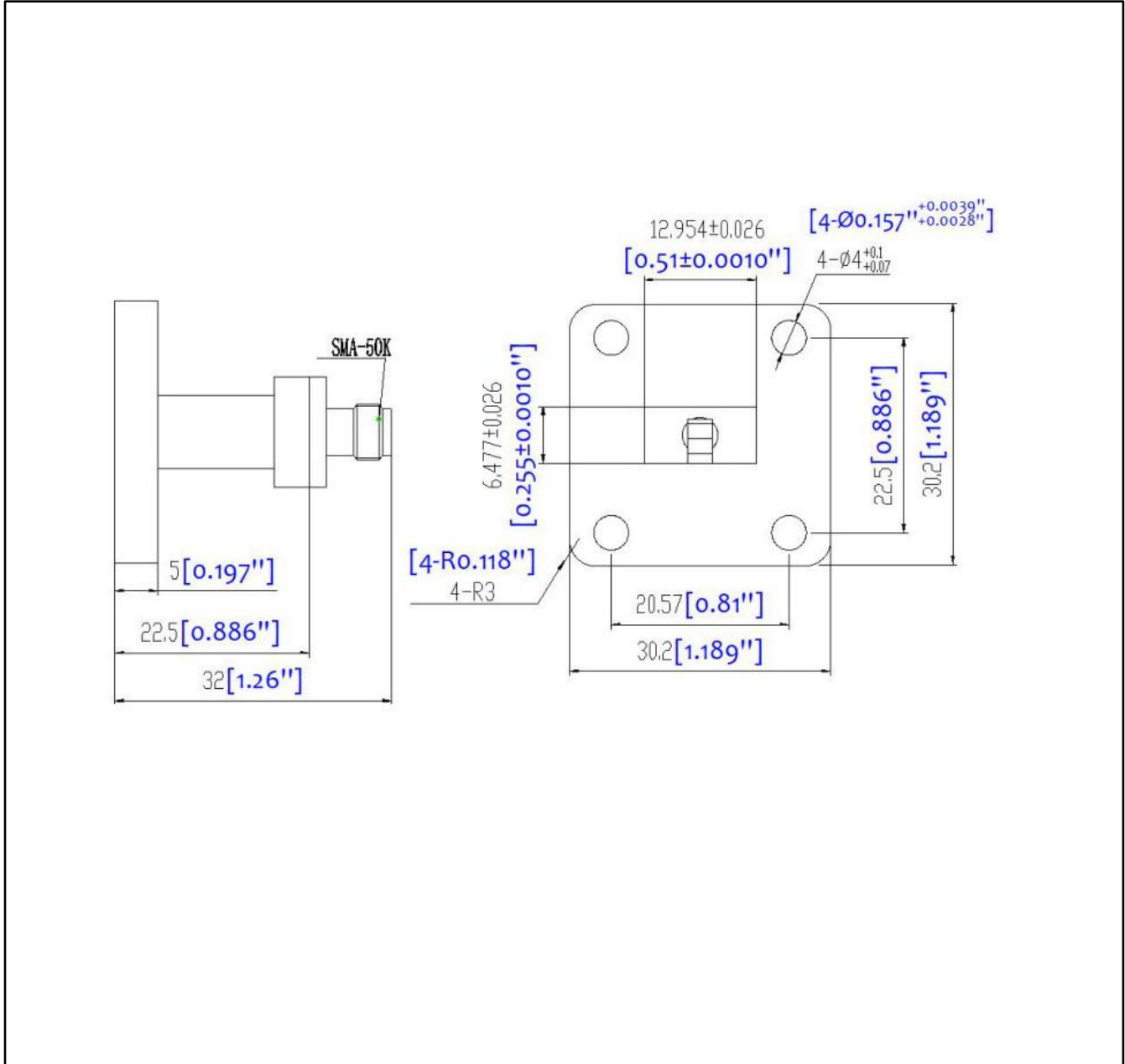
Typical Performance Plots



**Waveguide Coaxial Adapter 30.2mm Square Flange 15 - 22GHz**

**Outline Drawing:**

All Dimensions in mm [inches]



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