

WR112 Waveguide Coaxial Adapter 7.05 – 10 GHz



Features

- Waveguide Coaxial Adapter
- 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		7.05 ~ 10			GHz
Insertion Loss				0.2	dB
VSWR				1.25	:1
Impedance		50			Ω
Weight		3.8			Ounces
Finish	Internal Body	Silver Plated chromate or conversion			
	External Body	Body painted with gray/black epoxy enamel			

Ordering Guide

Part Number: **RF** **W** **A** **112** **A** **0** **CE** **AL**

RF-Lambda _____

Waveguide _____

Adapter _____

Waveguide Type Number _____

Connector Type: A=SMA, B=N, C=TNC, D=7/16 _____

Degree: 9=90° or 0=0° _____

Flange Type: CG=CPRG; CF=CPRF; CO=COVER; CK=CHOKE _____

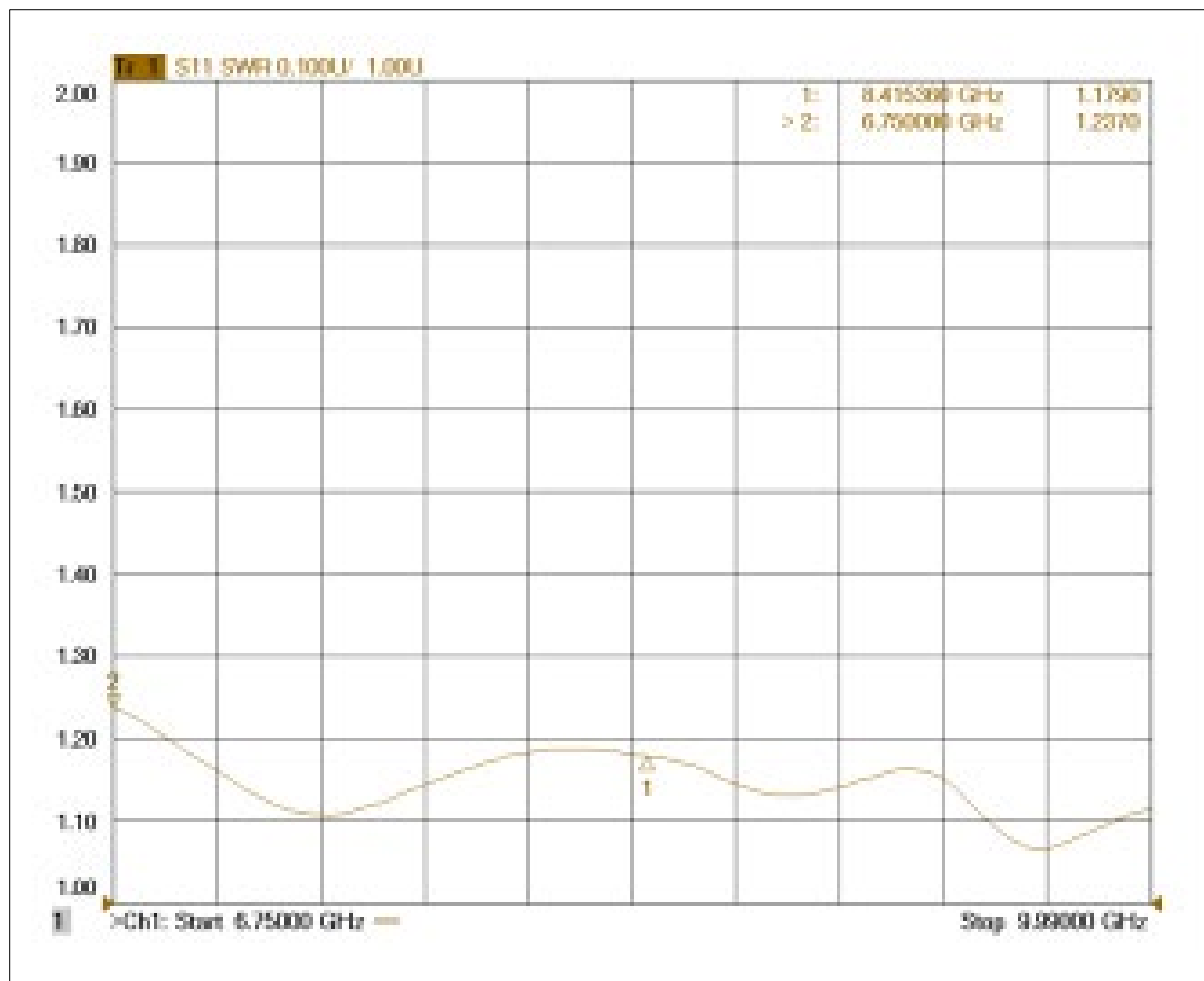
Material: AL=Aluminum; BS=Brass; AC=Alloyed Cuprum; SS=Stainless _____

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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)

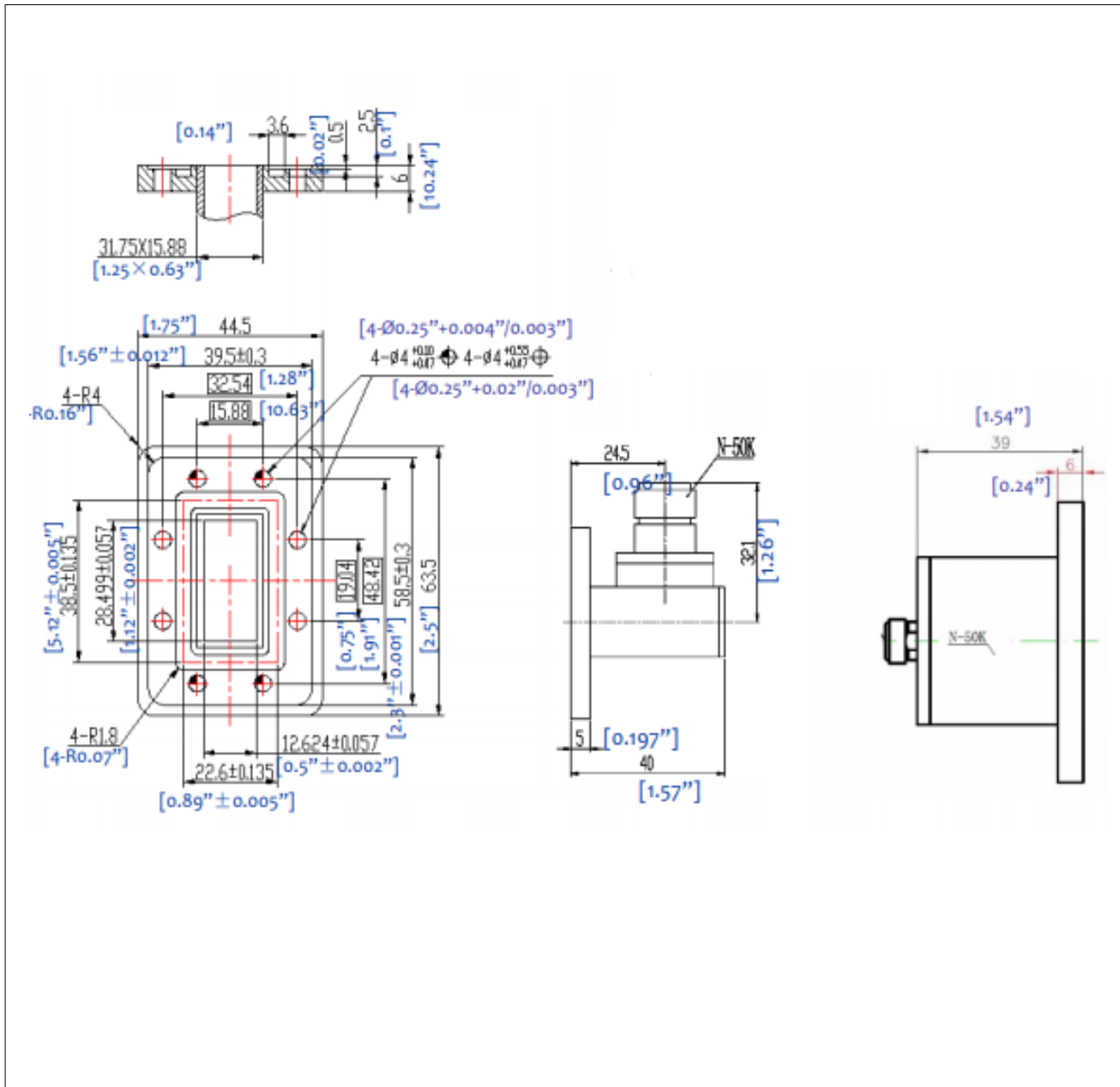
Typical Performance Plots



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Outline Drawing:

All Dimensions in mm [inches]



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