

WR34 Waveguide to Coaxial Adapter 21.7GHz-33GHz



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

Features

- Full band operation
- Low VSWR
- Rugged mechanical configuration

Product Description

RFWA34E0COBS is a waveguide to coaxial adapter with a frequency range of 21.7 to 33GHz.

The operating temperature of this product is from -40 to +85°C

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

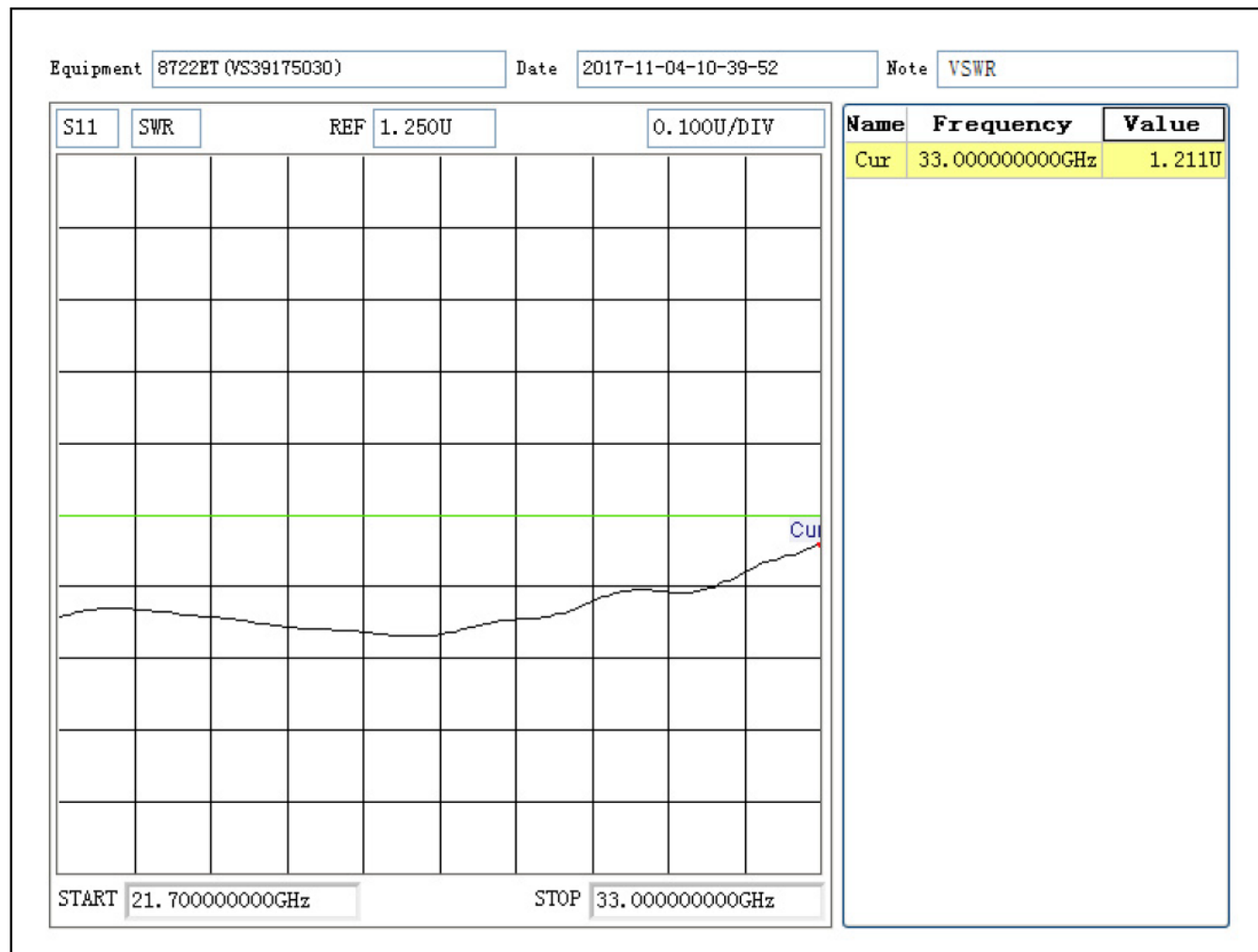
Electrical Specifications($T_A=25^{\circ}\text{C}$)

Parameter	Min	Typ	Max	Units
Frequency Range	21.7		33	GHz
VSWR			1.25	:1
Waveguide Type		WR34		
Flange Type		UBR260 (Cover)		
Connector Type		2.92mm-Female		

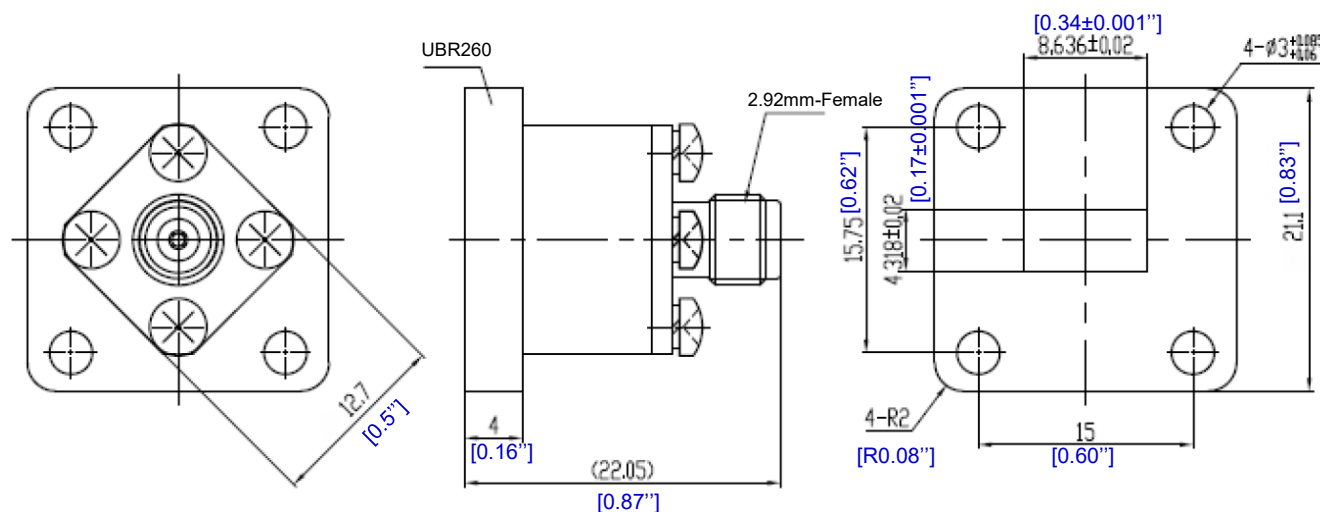
Environmental Specifications and Test Standards

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



Outline Drawing



Notes:

1. Package Material: Copper.
2. Inside Finish: Silver plating.
3. Outside Finish: Anticorrosion white paint.
4. All dimensions are in millimeters [inches].
5. The tolerance noted is just for reference.

Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RFWA34E0COBS	WR34	21.7GHz-33GHz Waveguide to Coaxial Adapter

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