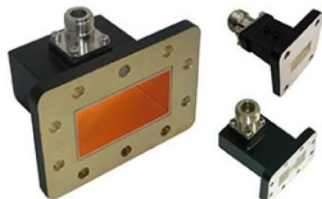


WR62 Waveguide to Coaxial Adapter 12.4GHz-18GHz



Product Description

RFWA62B0COBS is a waveguide to coaxial adapter with a frequency range of 12.4 to 18GHz.

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

Features

- Full band operation
- Low VSWR
- Rugged mechanical configuration

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

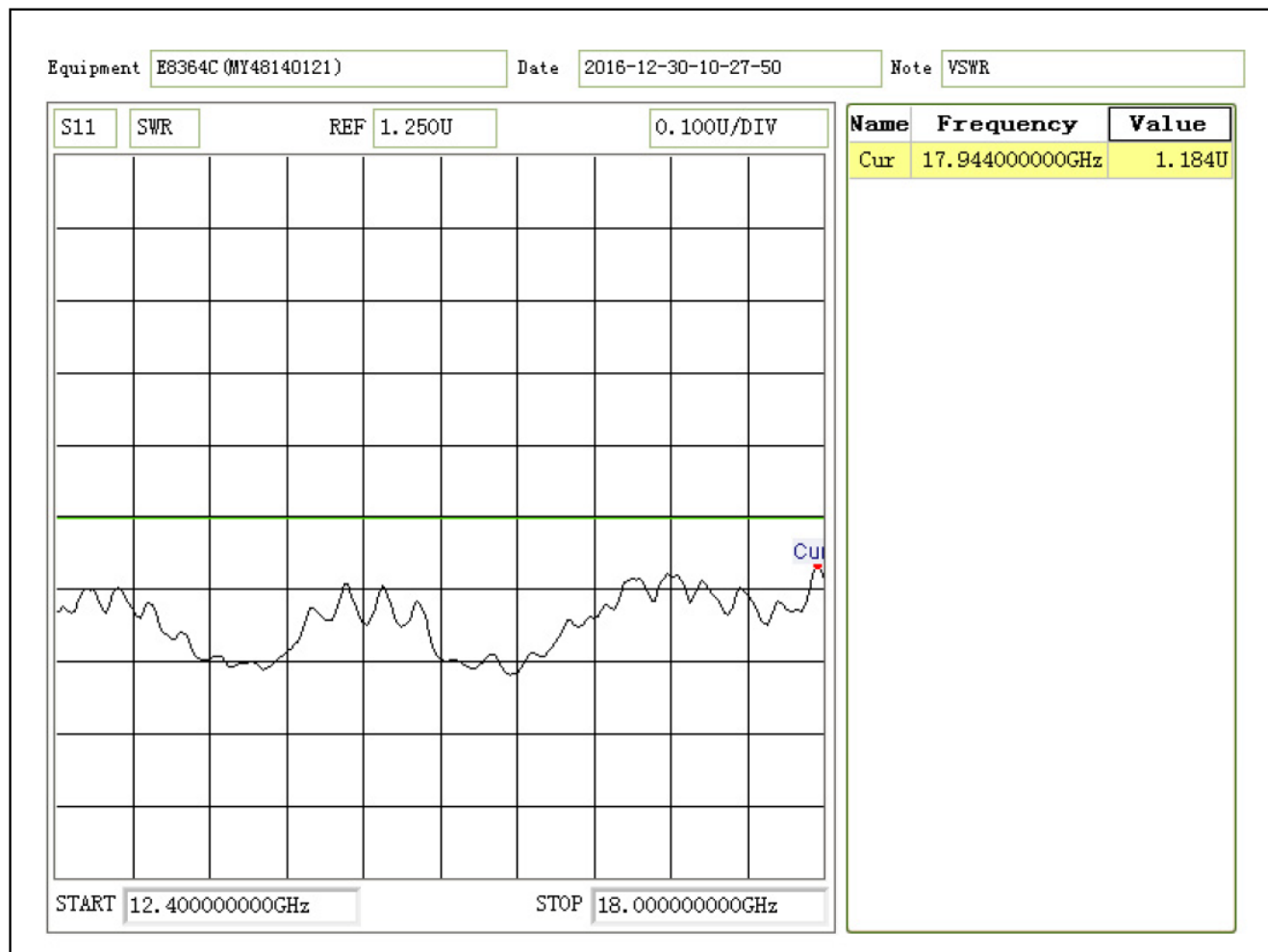
Electrical Specifications($T_A=25^{\circ}\text{C}$)

Parameter	Min	Typ	Max	Units
Frequency Range	12.4		18	GHz
VSWR			1.25	:1
Insertion Loss		0.3		dB
Power Handling (Max)		50		W
Weight		0.25		lbs
Waveguide Type		WR62		
Flange Type		COVER		

Environmental Specifications and Test Standards

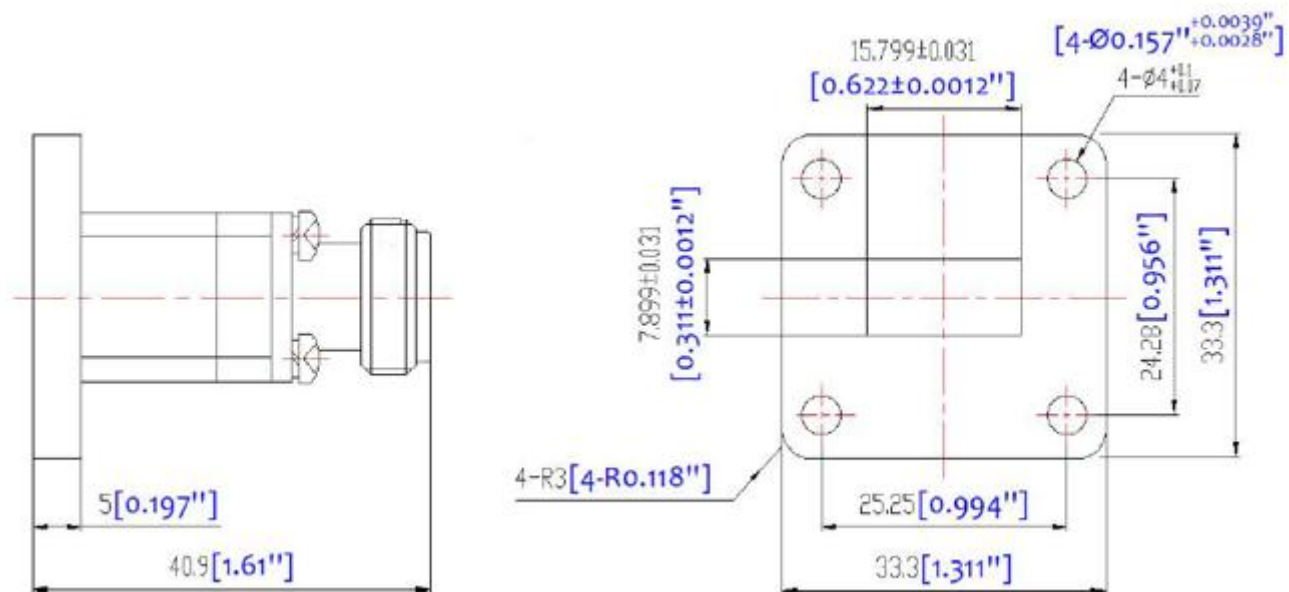
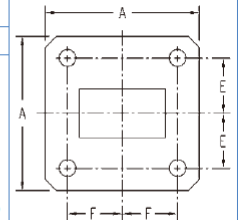
Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-50°C to +105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
Shock	1. Weight >20g, 50g half sine wave for 11ms, 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

WR62	WG18	R140
UG419/U	UBR140	
Dimensions	inches	mm
A	1.31 ¹	33.30
E	0.478	12.14
F	0.497	12.63
Hole Dia.	0.144 ²	4.085



Notes:

1. Package Material: Brass
2. All dimensions are in millimeters [inches].
3. The tolerance noted is just for reference.

Additional Information

Documentation

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

Webpage

Ordering Information

Part Number	Modification	Description
RFWA62B0COBS	WR62	12.4GHz-18GHz Waveguide to Coaxial Adapter

Important Notice

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