

WR22 Waveguide Circulator 33 - 50GHz



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

Features

- High power handling capability up to 25W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Stable performance over temperature

Typical Applications

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

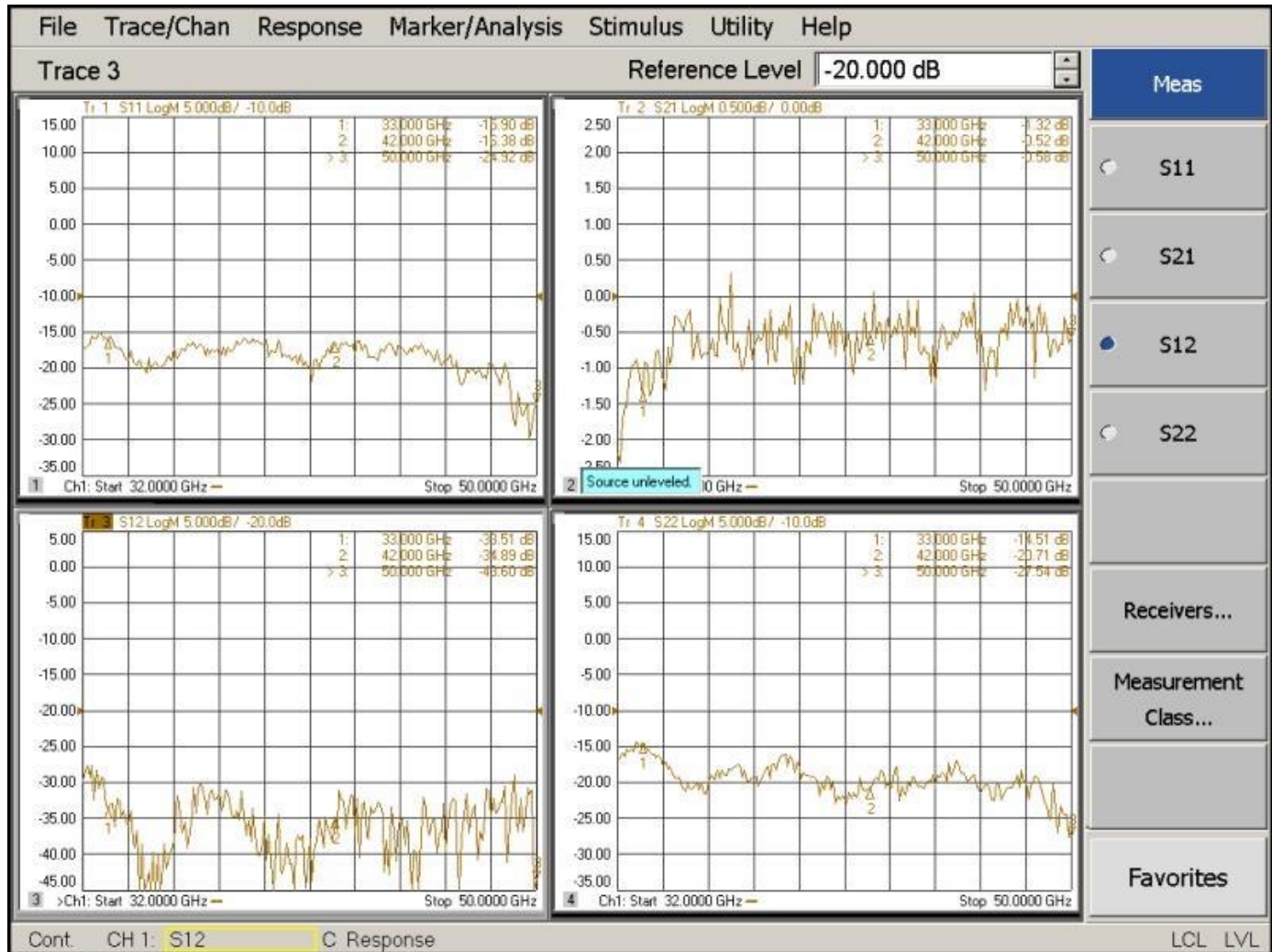
Electrical Specifications, $T_A=25\text{ }^{\circ}\text{C}$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	33-50			GHz
Insertion Loss		0.65	0.70	dB
Reverse Isolation (Note 1)	14.5	15		dB
VSWR		1.40	1.45	: 1
Power Handling (CW)			25	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Interface	COVER flat 4 holes			
Finish	Oxidation			
Flange Type	UG383/U			
Case Material	Aluminum Alloy			
Weight				ounces
Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss Bandwidth (5 ~10) % x Center Frequency (Isolation >17dB) Bandwidth (20~30) % x Center Frequency (Isolation >16dB) Bandwidth (40~60) % x Center Frequency (Isolation >15dB) Ask manufacturer for details				

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-20°C~+60°C (Case Temperature)
Storage Temperature	-45°C~+85°C
Thermal Shock	-20°C → +60°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)

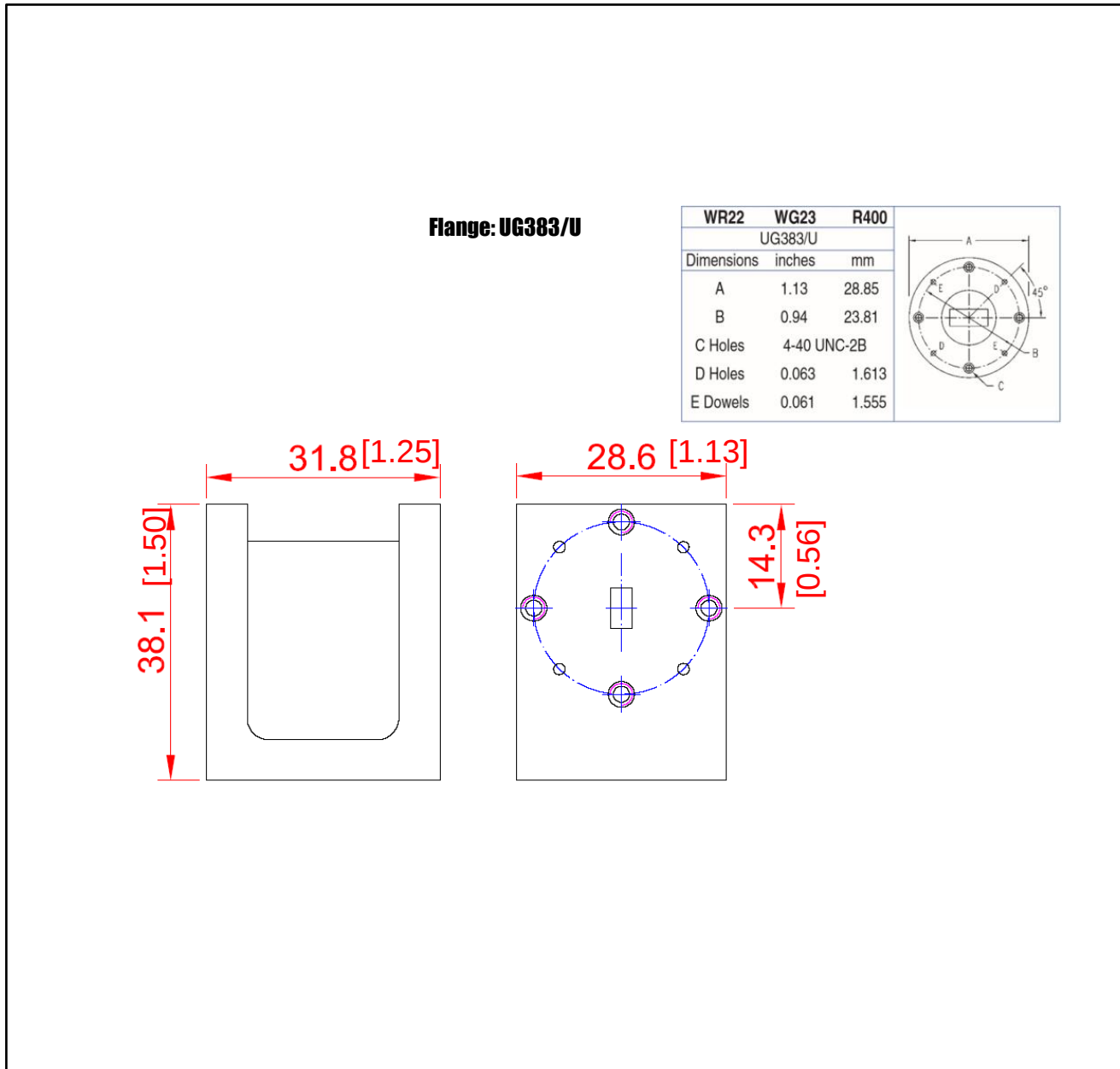
Typical Performance Plots



WR22 Waveguide Circulator 33 - 50GHz 25W

Outline Drawing:

All Dimensions in mm [inches]



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