

## 15W WR28 Waveguide Isolator 26.5 - 40GHz

Compliant



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



- High power handling capability up to 15W
- Wide band operation
- High isolation
- Low Insertion loss
- · Stable performance over temperature

### **Typical Applications**

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

#### Electrical Specifications, $T_A=25$ °C

Parameter	Min	Тур.	Max	Units
Frequency Range	26.5-40 GHz			
Insertion Loss		0.5	0.6	dB
Reverse Isolation (Note 1)	17			dB
VSWR		1.25	1.35	:1
Forward Power (CW)			15	w
Reverse Power (CW)			2	w
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Interface	COVER flat 4 holes			
Finish	conductive oxide			
Flange Type	UG599/U			
Case Material	Aluminum Alloy			

Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss Bandwidth (5 ~10) % x Center Frequency (Isolation >19dB)

bandwidth (5 ~10) % x Center Frequency (Isolation >190B)

Bandwidth (20~30) % x Center Frequency (Isolation >18dB)

Bandwidth (40~60)% x Center Frequency (Isolation >17dB)

Ask manufacturer for details

RF-LAMBDA USA

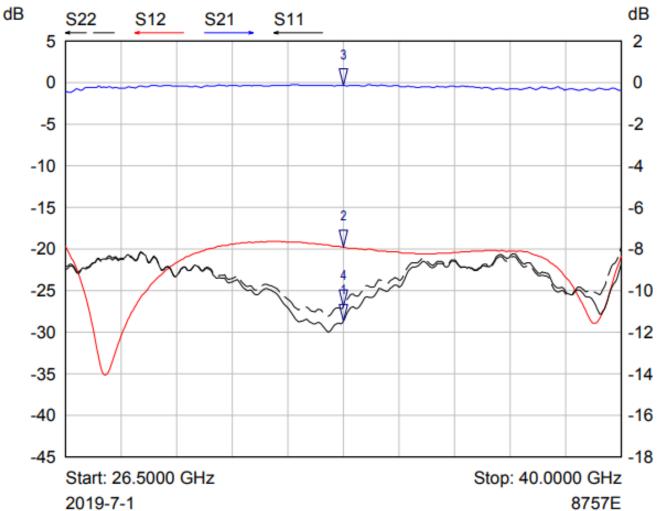
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### **Environmental Specifications and Test Standards**

Parameter	Standard	Description	
Operational Temperature		-20°C~+60°C	
Storage Temperature		-45°C~+85°C	
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)	
Random Vibration	MIL-STD- 39016	Acceleration Spectral Density 6 (m/s) Total 92.6 RMS	
Electrical & Temperature Burn In		Temperature +85°C for 72 Hours	
Shock		1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.7 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	MIL-STD-883 (For Hermetically Sealed Units)	

# Typical Performance Plots

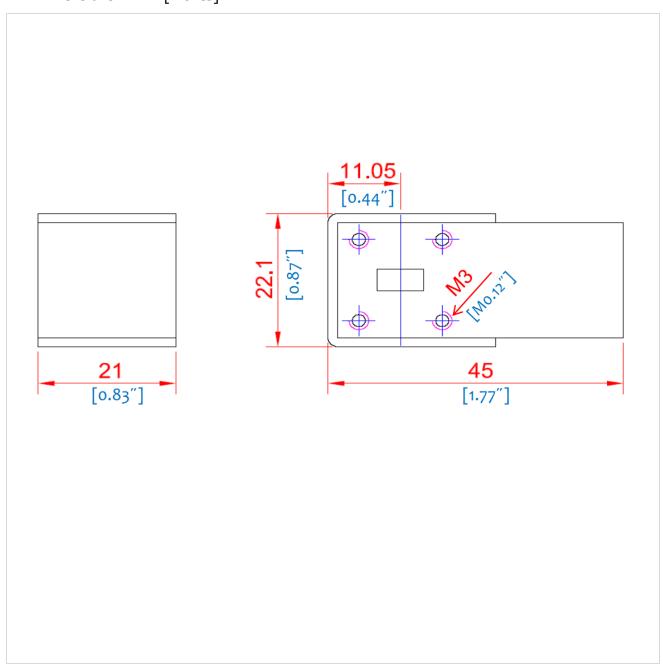


Mkr	Trace	X-Axis	Value	Notes
1 🎖	S11	33.2500 GHz	-28.71 dB	
2 ∇	S12	33.2500 GHz	-19.76 dB	
3 ₹	S21	33.2500 GHz	-0.13 dB	
4 ∇	S22	33.2500 GHz	-26.94 dB	



## **Outline Drawing:**

All Dimensions in mm [inches]



#### **Important Notice**

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