

## WR28 Waveguide to Coaxial Adapter 26.5GHz-40GHz



### Product Description

RFWA28E9CKAL is a waveguide to coaxial adapter with a frequency range of 26.5 to 40GHz.

The max power handling of the adapter is 50W. The max VSWR of 1.25:1.

The working temperature of this product is between - 45°C and + 85°C.

### Features

- Full band operation
- Low VSWR
- Rugged mechanical configuration
- 90 ° Waveguide to Coaxial

### 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<sub>A</sub>=+25°C)

Parameter	Min	Typ	Max	Units
Frequency Range	26.5		40	GHz
Insertion loss		0.3	0.5	dB
VSWR		1.18	1.25	: 1
Power handling(CW)			50	W
Weight		0.025 Max.		lbs.
Waveguide		WR28		
Flange Type		UG599/U (GROOVED)		
Connector		2.92mm-Female		

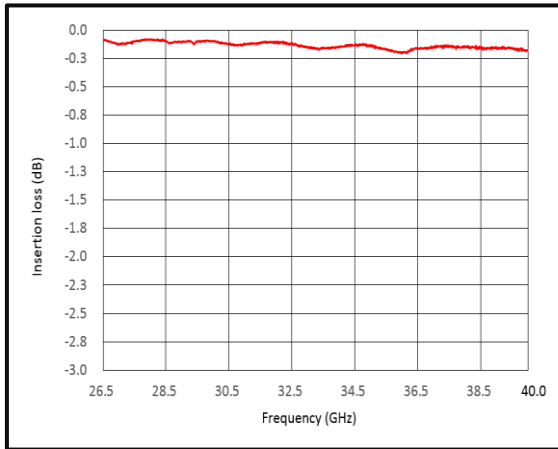
**Environmental Specifications and Test Standards**

Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-55°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)

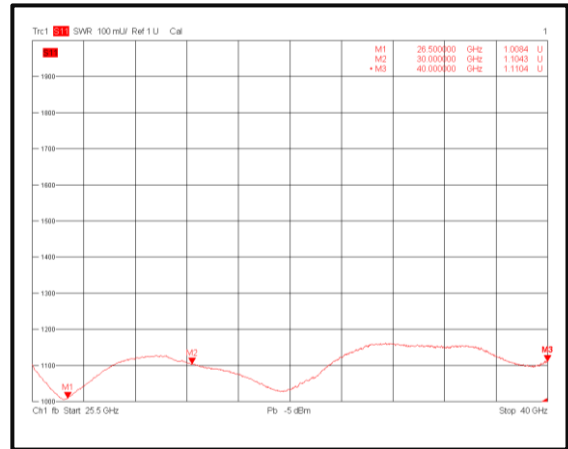
\*\*For vibration testing details please see additional information section.

Typical Performance Plots

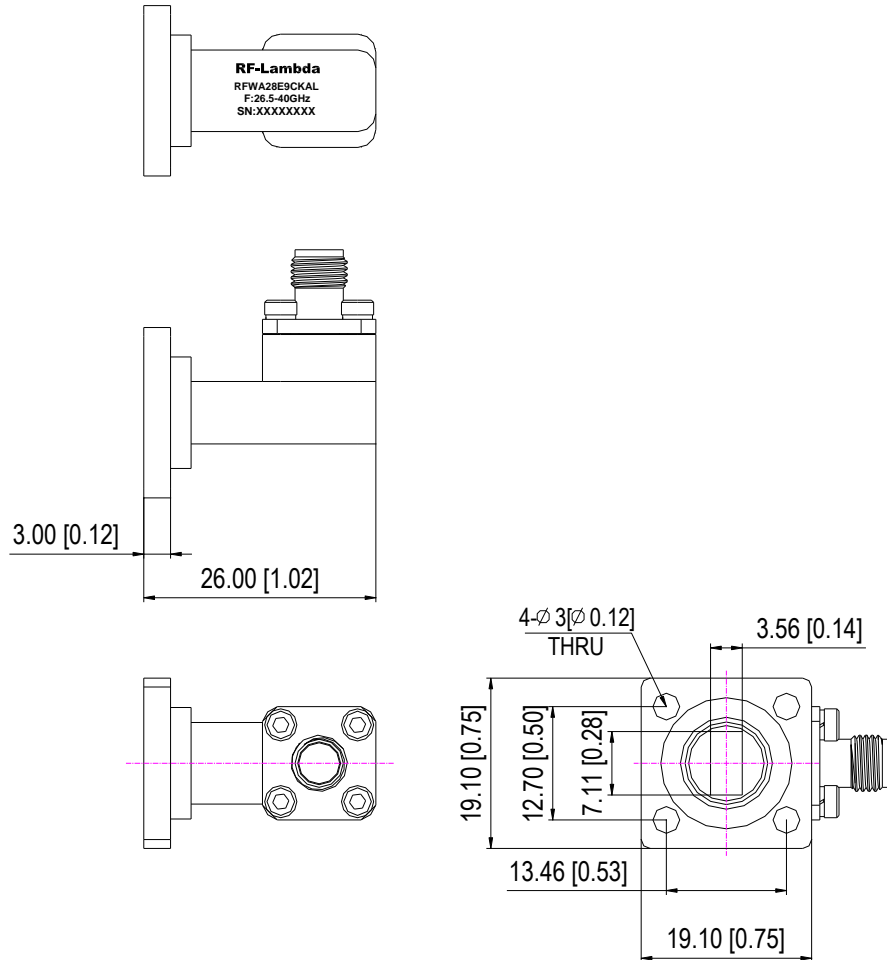
Insertion Loss



VSWR

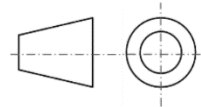


Outline Drawing



Notes:

1. Package Material: Aluminum
2. Finish: Blue Paint
3. All dimensions are in millimeters [inches].
4. Tolerances  $\pm 0.1$  [0.004] unless otherwise specified.



Additional Information

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

**Ordering Information**

Part Number	Modification	Description
RFWA28E9CKAL	Connector 2.92mm-Female	26.5GHz-40GHz Waveguide to Coaxial Adapter

**Important Notice**

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