

FEATURES

- Waveguide Connectors Reduce Manufacturing Costs by Minimizing Package Variations
- Interchangeable With Industry-Standard Coaxial Connectors
- Full Waveguide Band Operation
- Field Replaceable and Reconfigurable
- Hermetical Package Preservation
- Provides a Short-Circuit Termination at DC
- Supports 90-Degree Input/Output Port Rotation

UNI-GUIDE™

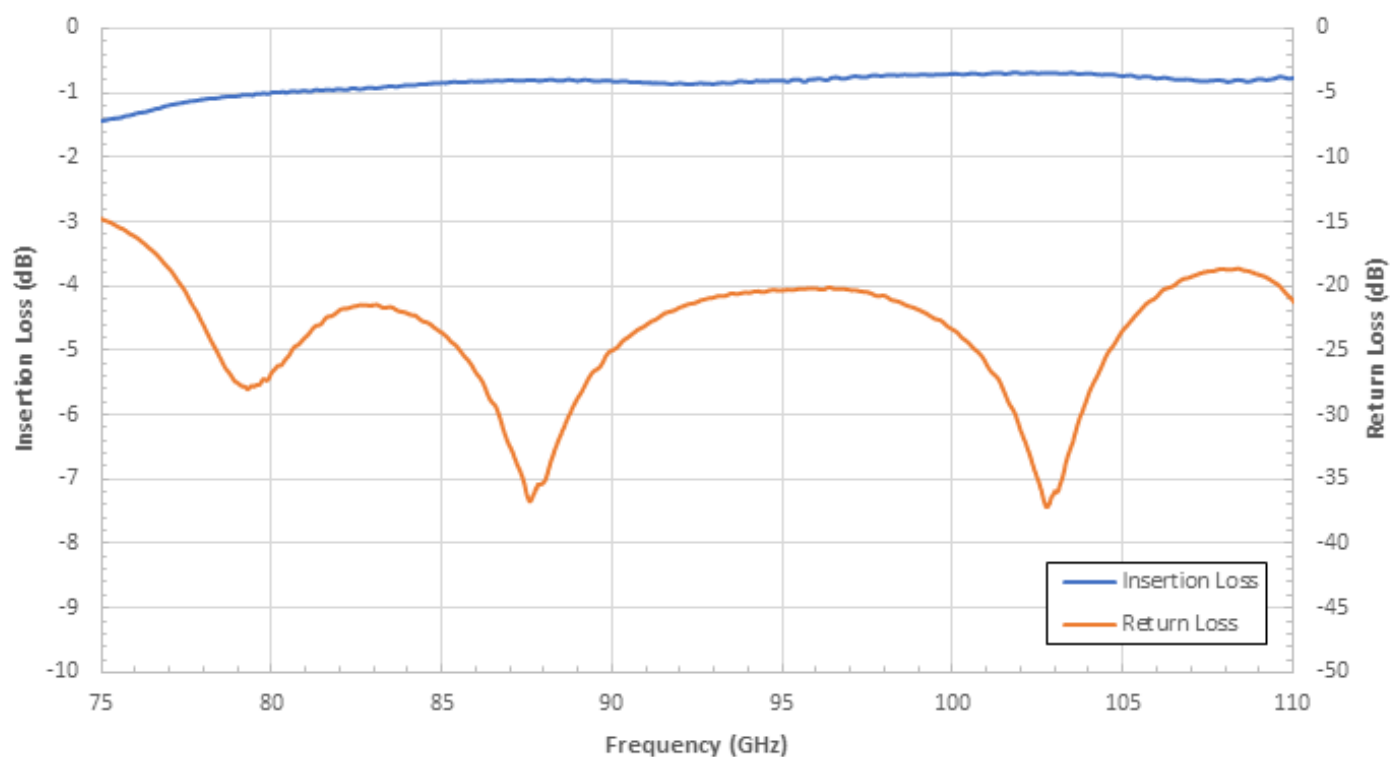
EXPANDED FREQUENCY TO 110 GHz

Eravant has expanded the Uni-Guide™ product line to higher frequencies up to 110 GHz with the addition of WR-15, WR-12, and WR-10 models SUF-1509-280-S1, SUF-1209-280-S1, and SUF-1009-280-S1, respectively. The new Uni-Guide™ waveguide connectors are compatible with 0.009" pin diameter glass-bead feed-thrus. Designed with the same mounting hole pattern as Southwest Microwave's popular 1.0 mm 2-hole flanged connectors, they allow users to easily swap between coaxial and waveguide ports without breaking hermeticity or requiring the user to perform mechanical modifications on their package. In addition, the Uni-Guide™ can be rotated 90 degrees to allow for various port orientation and configurations without the need for dedicated waveguide twists or other hardware.

Eravant's patented Uni-Guide™ covers a combined frequency range from 18 to 110 GHz. Waveguide connectors with receptacles for accepting different glass bead pin sizes such as 12, 15, and 20 mils, different mounting hole separations, various mechanical designs, and other frequency bands are offered under different model numbers. Uni-Guide™ connectors are an affordable solution to help eliminate waveguide interfaced product development cycle time, reduce inventory management efforts, offer various port configurations/orientations, and preserve hermetical packaging without introducing an expensive waveguide window sealing process.



Typical Measured Performance vs Frequency (SUF-1009-280-S1)



Model	Frequency Range	Waveguide Size	Pin Diameter Accepted	Insertion Loss	Return Loss
SUF-4212-750-S1	18 to 26.5 GHz	WR-42	Ø0.012"	0.5 dB	20 dB
SUF-3412-750-S1	22 to 33 GHz	WR-34	Ø0.012"	0.5 dB	20 dB
SUF-2812-480-S1	26.5 to 40 GHz	WR-28	Ø0.012"	0.5 dB	20 dB
SUF-2212-480-S1	33 to 50 GHz	WR-22	Ø0.012"	0.6 dB	20 dB
SUF-1912-480-S1	40 to 60 GHz	WR-19	Ø0.012"	0.7 dB	20 dB
SUF-1509-280-S1	50 to 75 GHz	WR-15	Ø0.009"	1.3 dB	15 dB
SUF-1209-280-S1	60 to 90 GHz	WR-12	Ø0.009"	1.3 dB	15 dB
SUF-1009-280-S1	75 to 110 GHz	WR-10	Ø0.009"	1.4 dB	15 dB