

Description:

Model SAR-1725-34KF-E2-WR is a pyramidal horn antenna with a end launch (180°) WR-34 waveguide to 2.92 mm (F) coax panel mount adapters to cover the frequency range of 22 GHz to 33 GHz. The antenna offers 17 dBi nominal gain and a typical half power beamwidth of 26 degrees on the E-plane and 24 degrees on the H-plane. The antenna supports linear polarized waveforms. The model with 2.92 mm (M)



coax panel mount adapter is offered under model number SAR-1725-34KM-E2-WR.

Features:

- Inline Configuration
- Linear Polarization
- DC Short Circuit at Input

Applications:

- 5G Systems
- Antenna Ranges
- Antenna Gain Measurements
- System Setups

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	22 GHz		33 GHz
Gain		17 dBi	
Polarization		Linear	
3 dB Beamwidth, E-Plane		26°	
3 dB Beamwidth, H-Plane		24°	
Sidelobes, E-Plane		-14 dB	
Sidelobes, H-Plane		-36 dB	
Return Loss		20 dB	
Power Handling			50 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

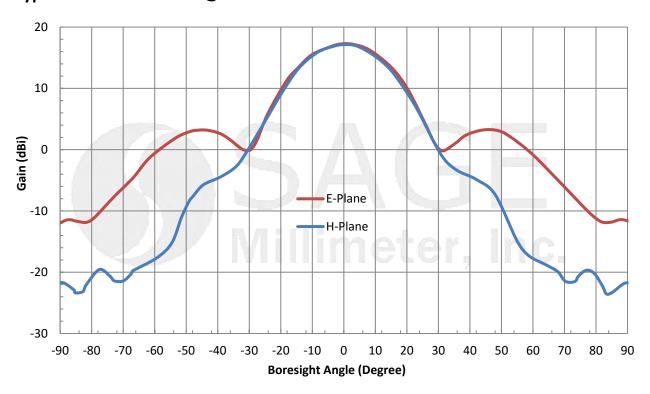
Item	Specification	
Antenna Port (F)	2.92 mm Female for Model Number: SAR-1725-34KF-E2-WR	
Antenna Port (M)	2.92 mm Male for Model Number: SAR-1725-34KM-E2-WR	
Material	Aluminum	
Connector Material	Stainless Steel	
Finish	Gold Plated	
Weight	3.5 Oz	
Size	3.17" (L) X 1.45" (Ø)	
Outline	AR-3C17-E-WR	



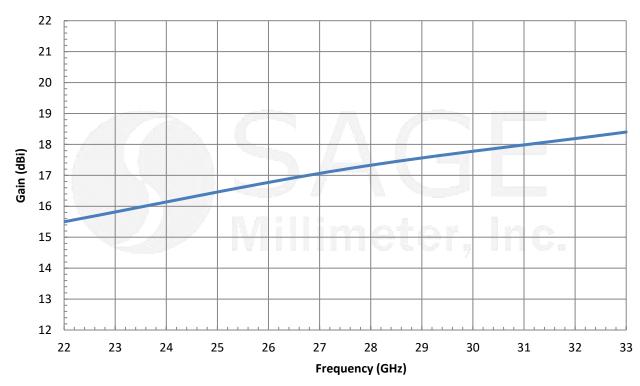
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Typical Antenna Pattern @ 27.5 GHz



Typical Gain vs. Frequency

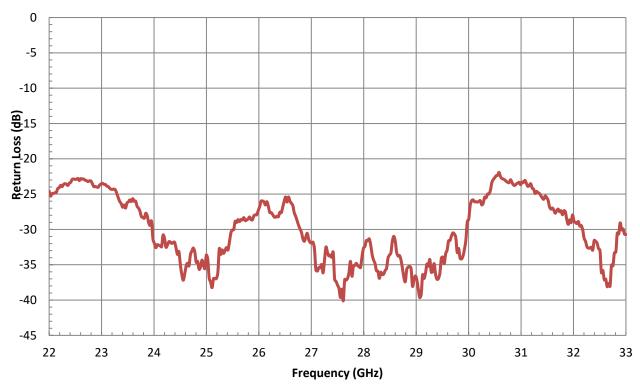




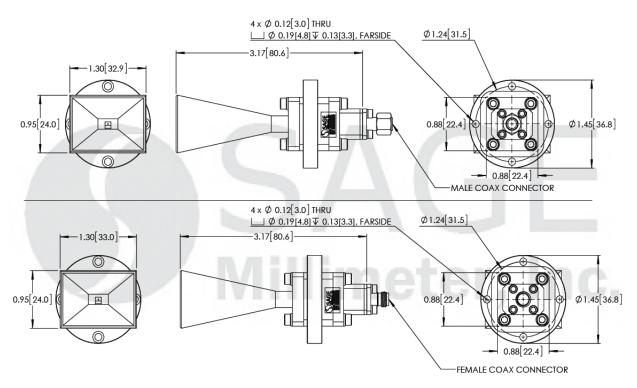
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Typical Return Loss vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])





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Note:

- This antenna is a mature product. The reasons for only providing simulated data can be found in the following blog here.
- All testing was performed under 25°C room temperature.
- Eravant reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the antenna will cause performance degradation and possible device damage.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm), should be applied. Eravant torque wrench, model SCH-08008-S1, is highly recommended.





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