

Quad Ridged, Dual Polarization Horn Antenna, 26.5 to 40 GHz, 15 dBi

Description:

SAC-2734031517-KF-S5-DP is a quad ridged, dual polarized horn antenna that operates from 26.5 to 40 GHz. The antenna offers 15 dBi nominal gain and a half power beamwidth of 16 degrees on the E-plane and 17 degrees on the H-plane. The antenna also offers -17 dB typical sidelobe levels across the entire operating frequency. The input ports of this antenna are female 2.92 mm (K) connectors.



Features:

- Coaxial Connectors for RF Inputs
- Broadband Width
- Circular and Linear Polarization
- Moderate Gain

Applications:

- Communication Systems
- Radar Systems
- Antenna Ranges
- System Setups

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		40 GHz
Gain		15 dBi	
Polarization	Circular and Linear		
E-Plane 3 dB Beamwidth @ 33 GHz		16°	
H-Plane 3 dB Beamwidth @ 33 GHz		17°	
Port Isolation		20 dB	
E-Plane Sidelobe Levels @ 33 GHz		-12 dB	
H-Plane Sidelobe Levels @ 33 GHz		-17 dB	
Return Loss		7 dB	
Power Handling			10 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

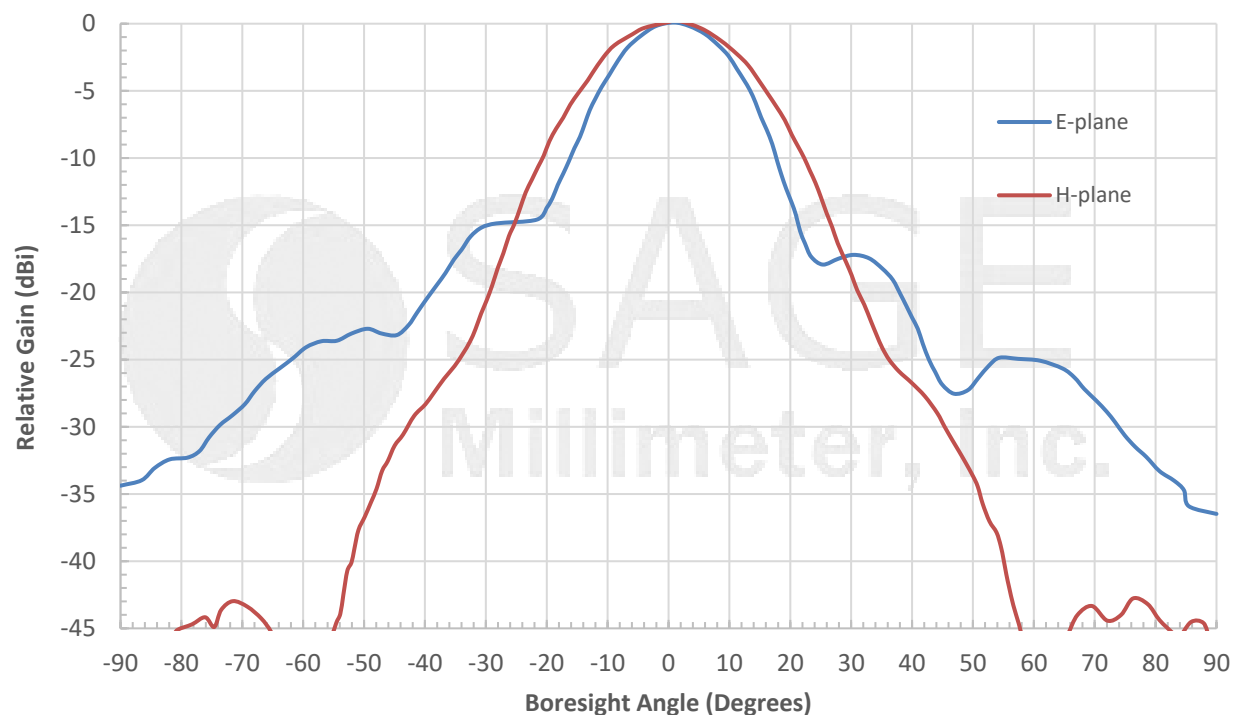
Parameter	Connector
Antenna Ports	2.92 mm (K) Female
Material	Copper
Inside Finish	Silver Plating
Outside Finish	Black Paint
Weight	5.3 Oz
Size	2.78" (L) x 1.57" (Ø)
Outline	AC-TC15-DP-H1



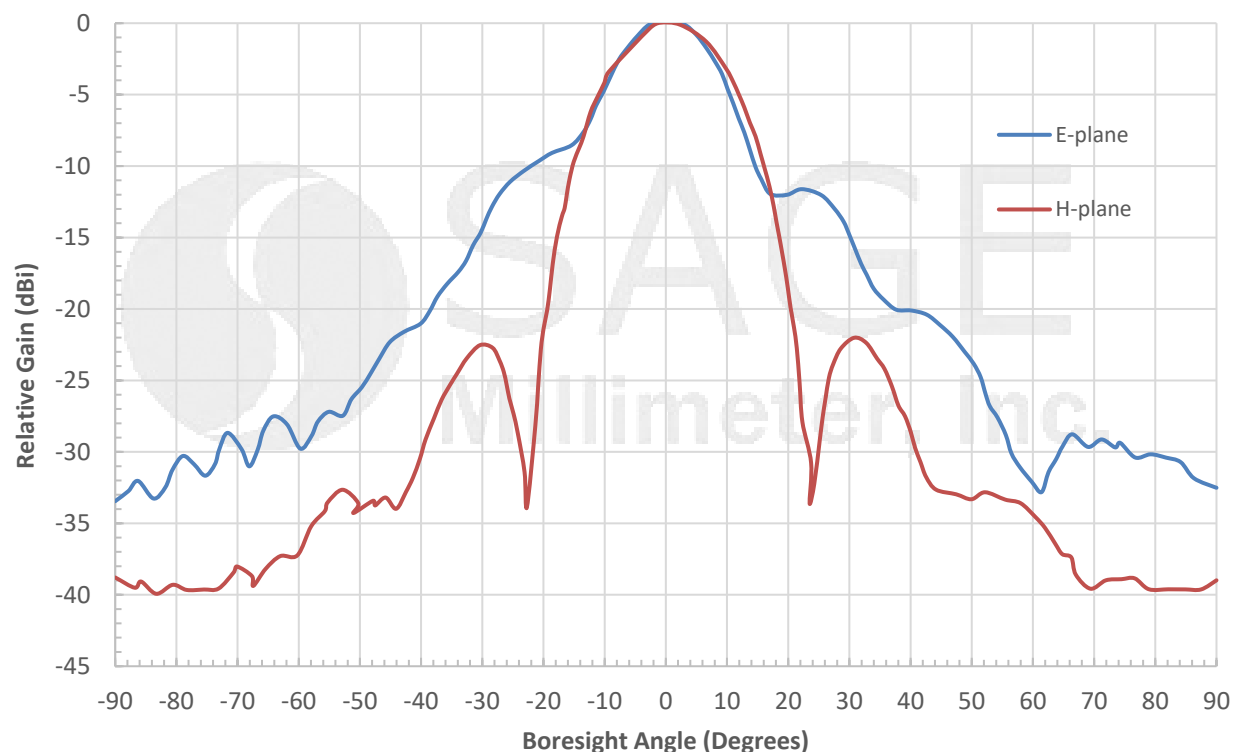


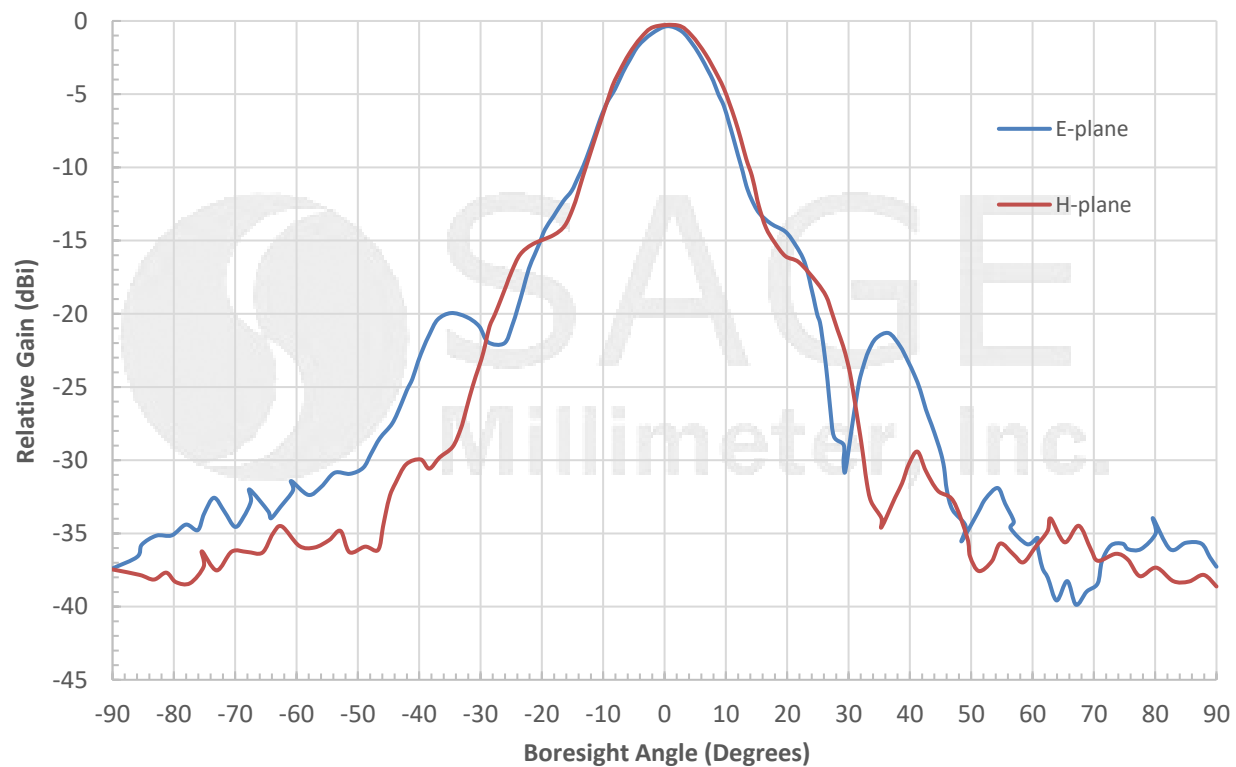
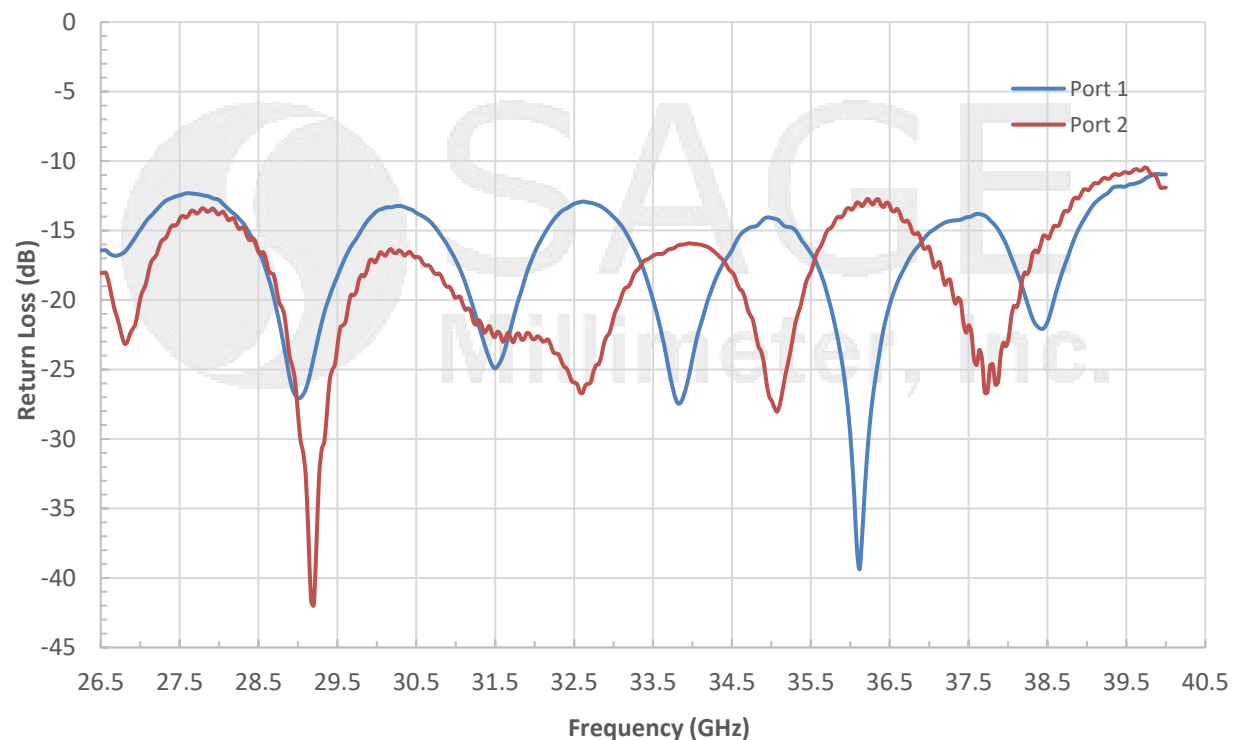
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Typical Antenna Pattern @ 26.5 GHz



Typical Antenna Pattern @ 33 GHz

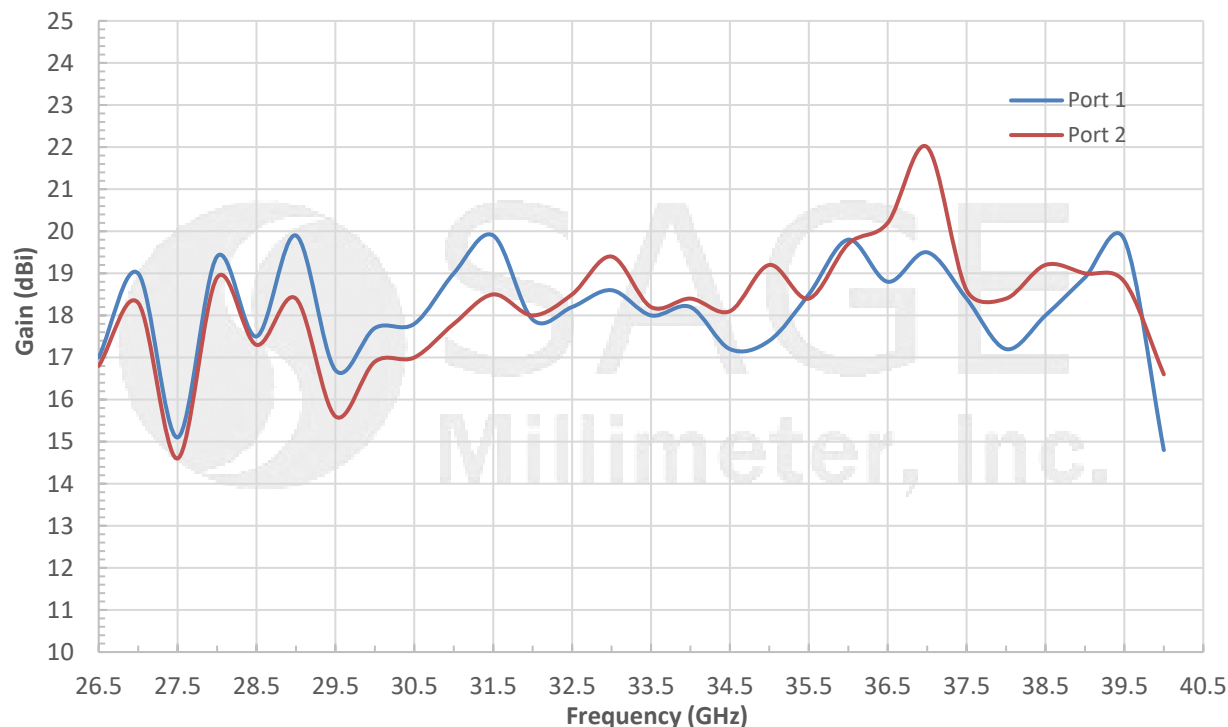


**Quad Ridged, Dual Polarization Horn Antenna, 26.5 to 40 GHz, 15 dBi****Typical Antenna Pattern @ 40 GHz****Typical Return Loss vs. Frequency**

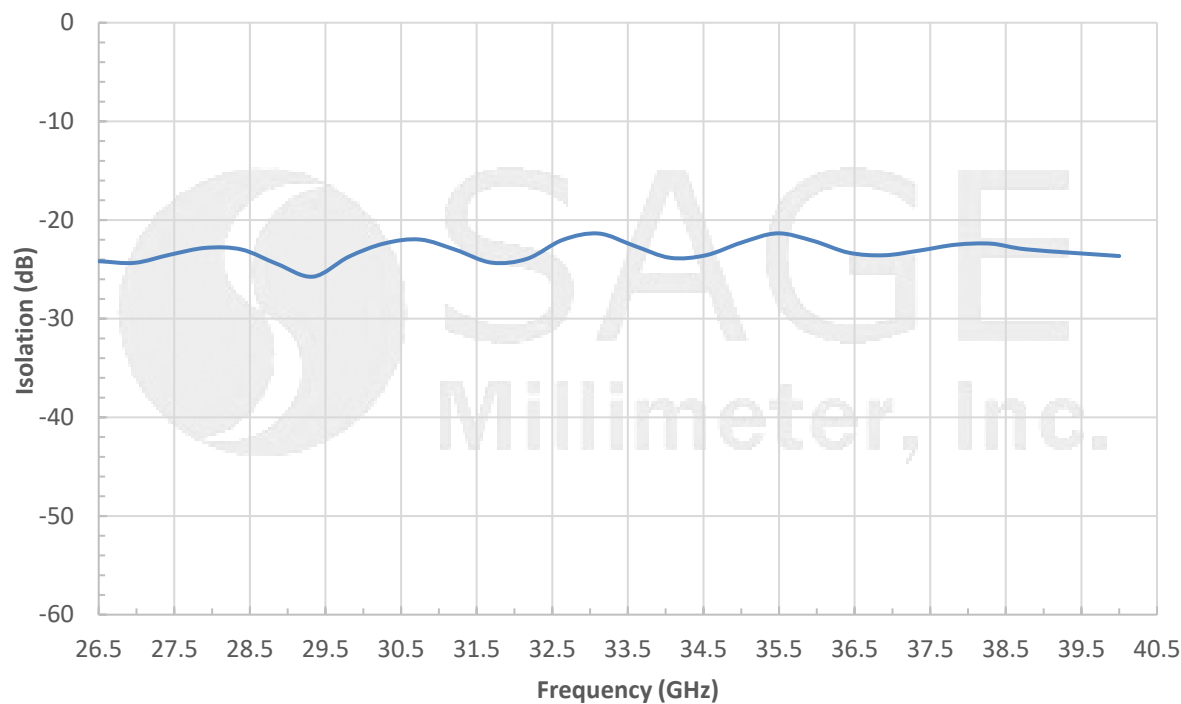


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Typical Gain vs. Frequency

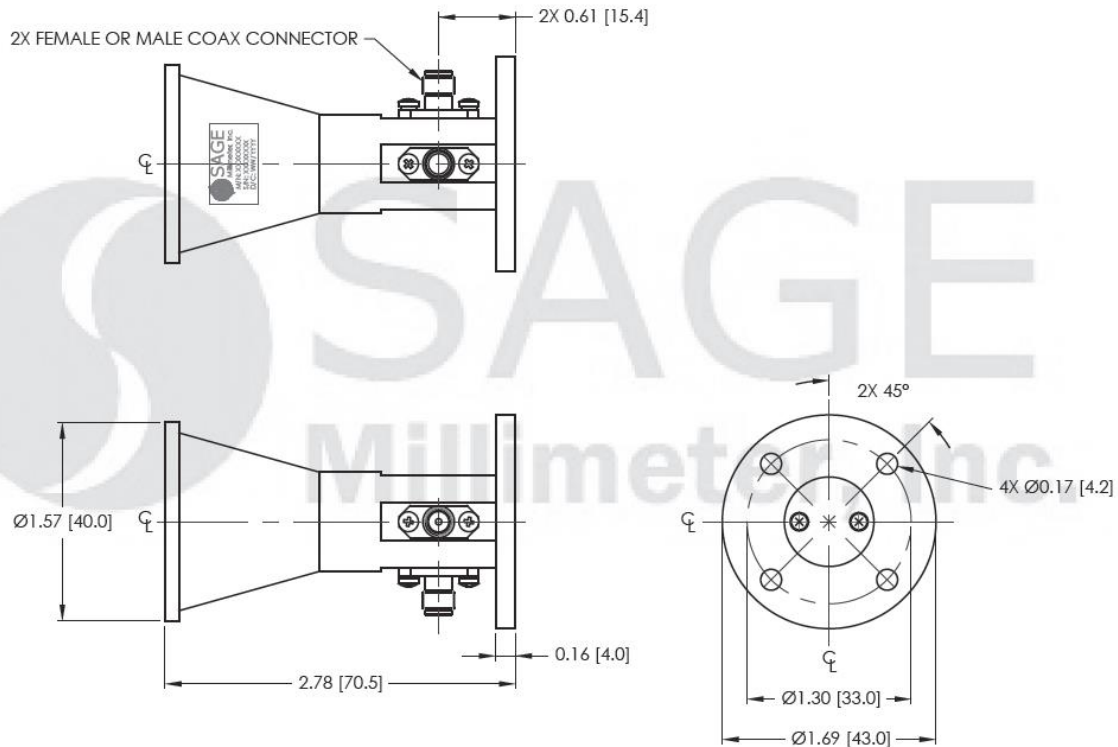


Typical Port to Port Isolation vs. Frequency



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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- 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.

