SAY-3433633135-28-S1-MP

Ka Band Monopulse Cassegrain Antenna, 34 to 36 GHz, 31 dBi

SAY-3433633135-28-S1-MP is a Monopulse Cassegrain antenna that operates from 34 to 36 GHz, and has a half power beamwidth of 3.5 degrees. The antenna offers a nominal gain of 31 dBi in the Sum Port, and 24 dBi in the H-Port and V-Port. The antenna has three WR-28 waveguides with UG-599/U compatible flanges, which are designated as Sum Port, V-Port, and H-Port. The antenna can support linear polarized waveforms and is designed and manufactured for indoor applications.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	34 GHz		36 GHz
Gain, Sum Port		31 dBi	
Sum 3 dB Beamwidth		3.5°	
Gain, Difference V-Port		24 dBi	
Gain, Difference H-Port		24 dBi	
Null Depth		30 dB	
Polarization		Linear	
Sidelobes, E-Plane		12 dB	
Sidelobes, H-Plane		12 dB	
Return Loss		10 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Connectors	WR-28 Waveguide with UG-599/U Compatible Flange
RF Connector Material	Aluminum
Reflector Material	Aluminum
Finish	Clear chem film
Reflector Diameter	6”
Outline	AY-RA31-06-MP

ECCN

EAR99

FEATURES

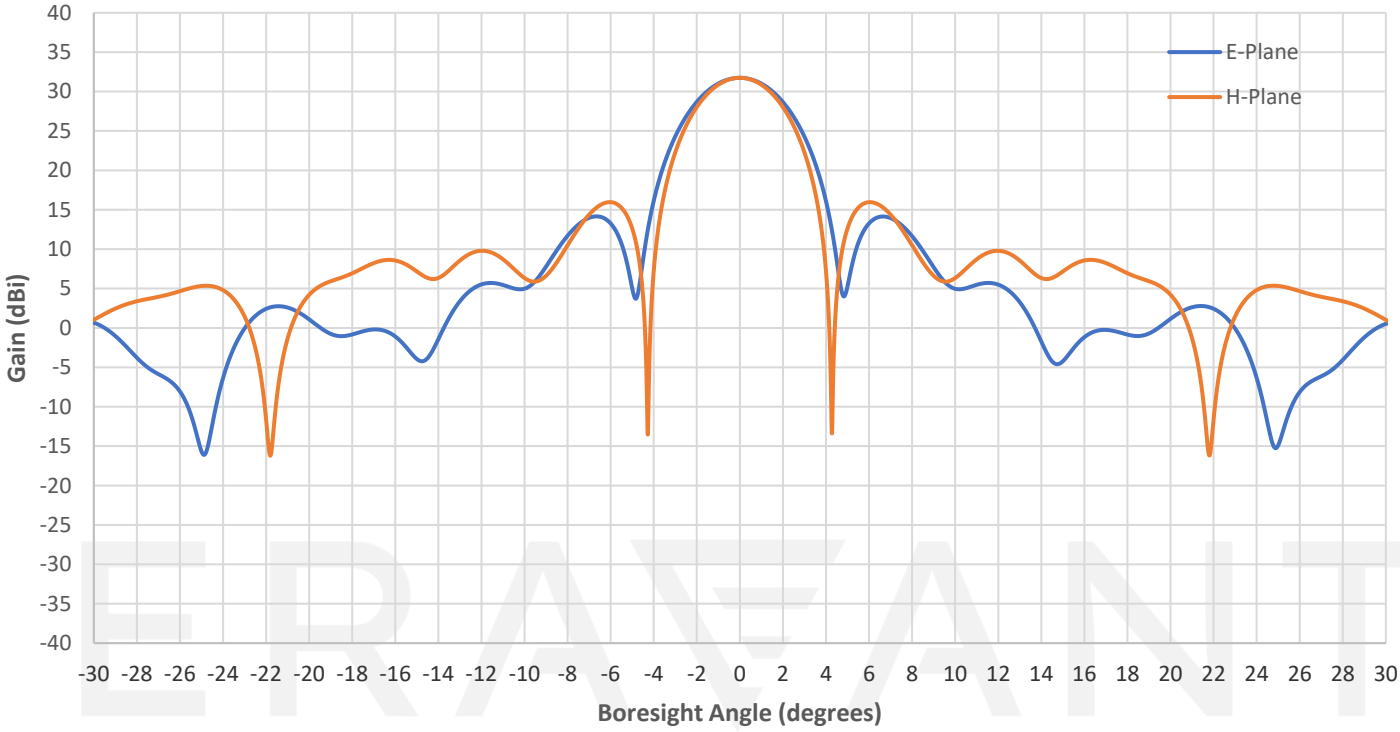
- Rugged Configuration
- Good Null Depth
- High Performance

APPLICATIONS

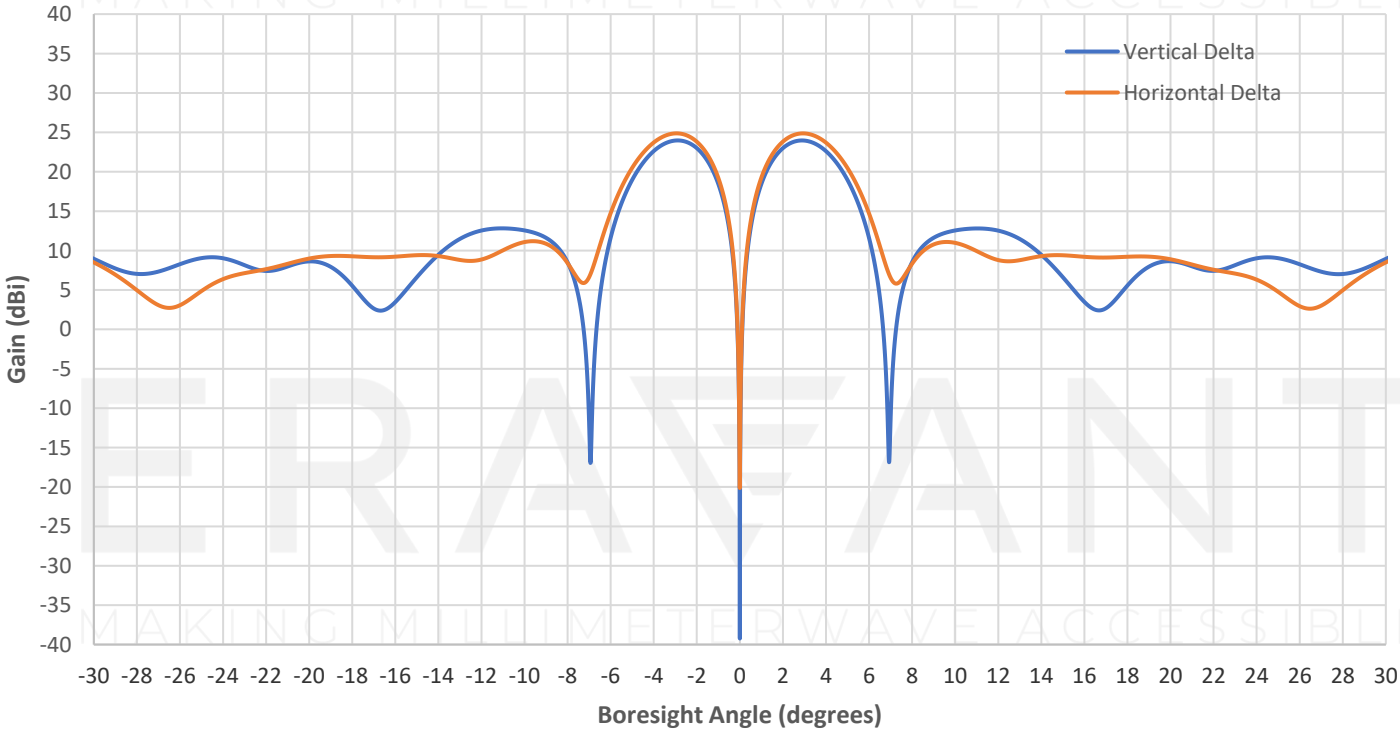
- 5G Systems
- Communication Systems
- Radar Systems

SUPPLEMENTAL DETAILS

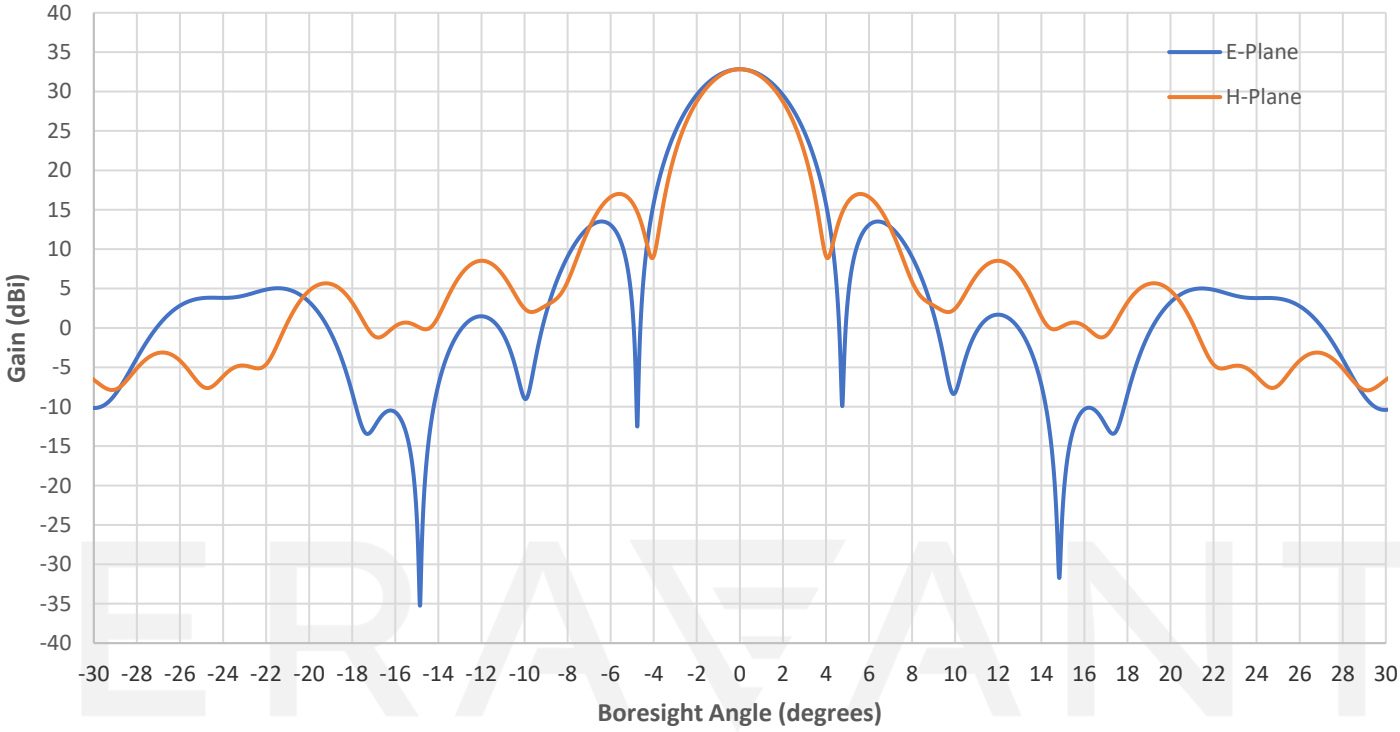
Simulated Patterns @ 34 GHz, Sum Port



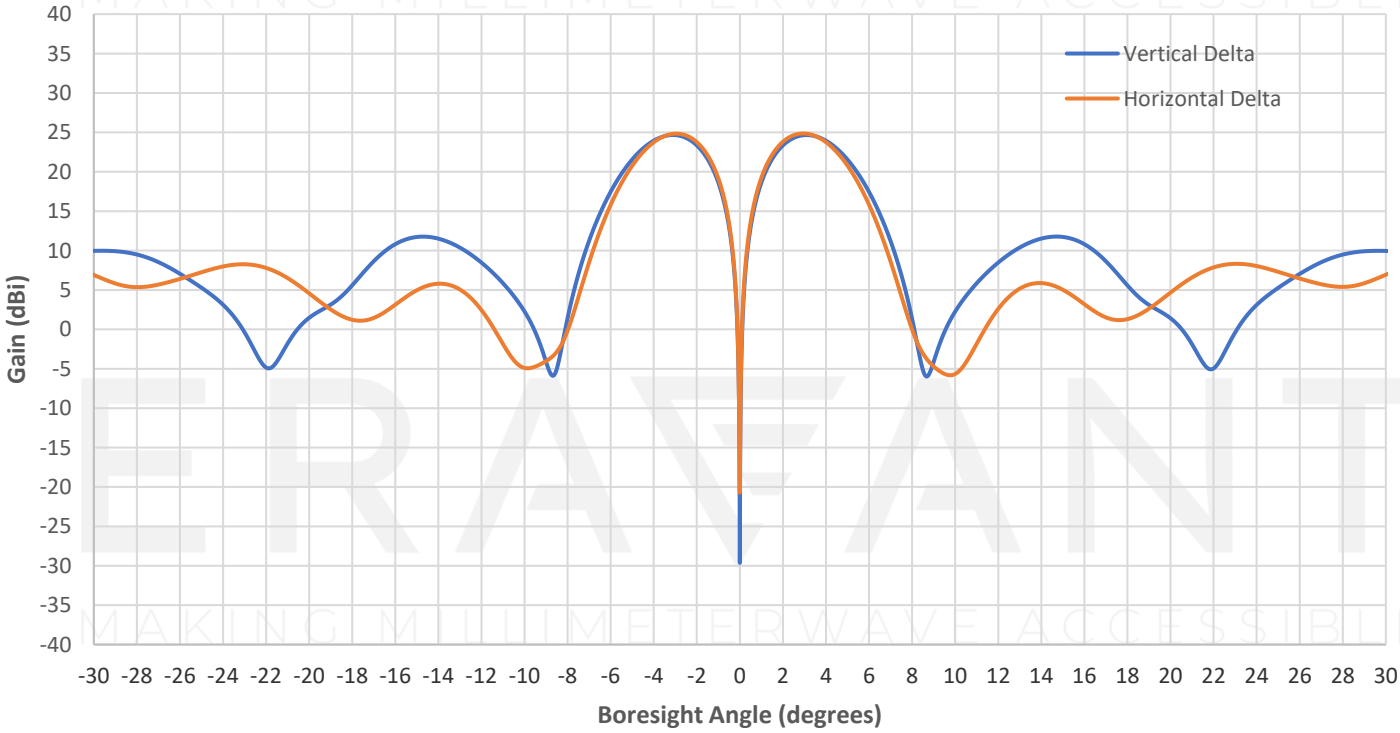
Simulated Patterns @ 34 GHz, Vertical & Horizontal Port



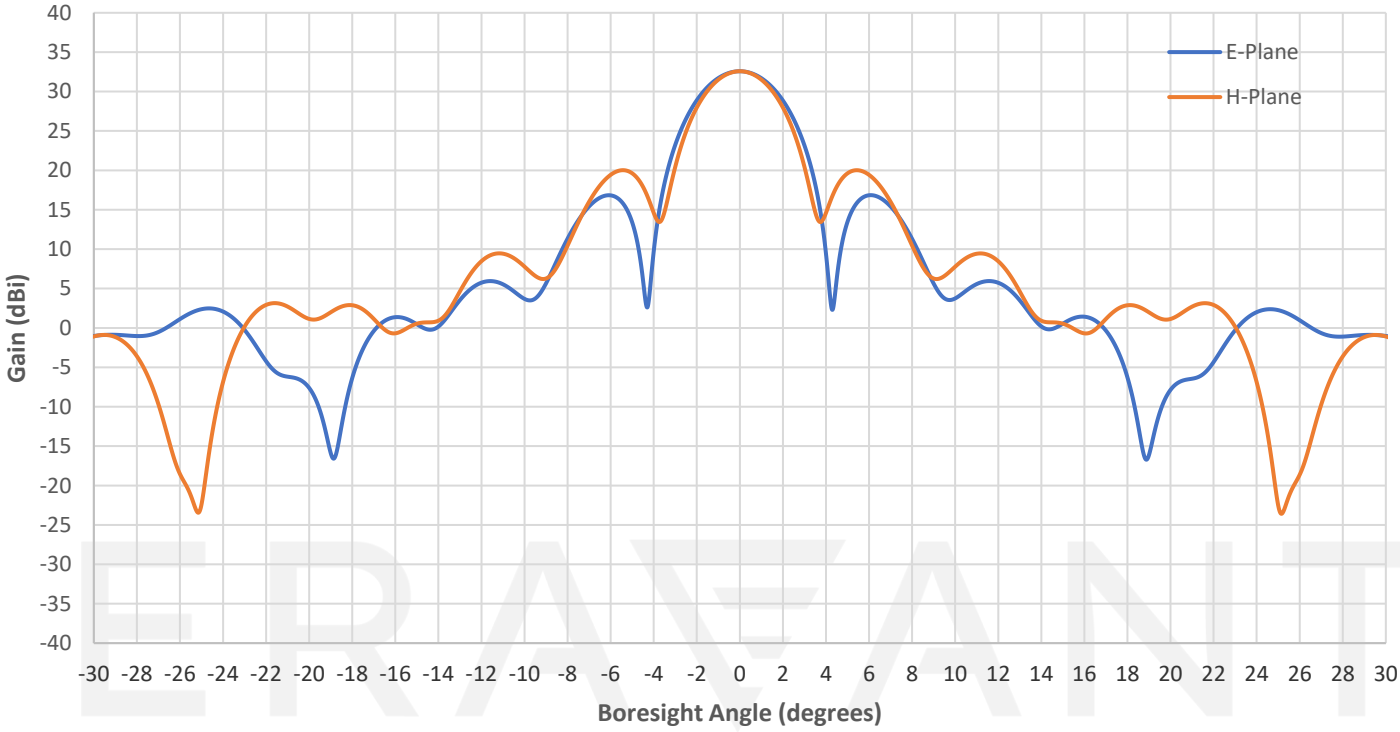
Simulated Patterns @ 35 GHz, Sum Port



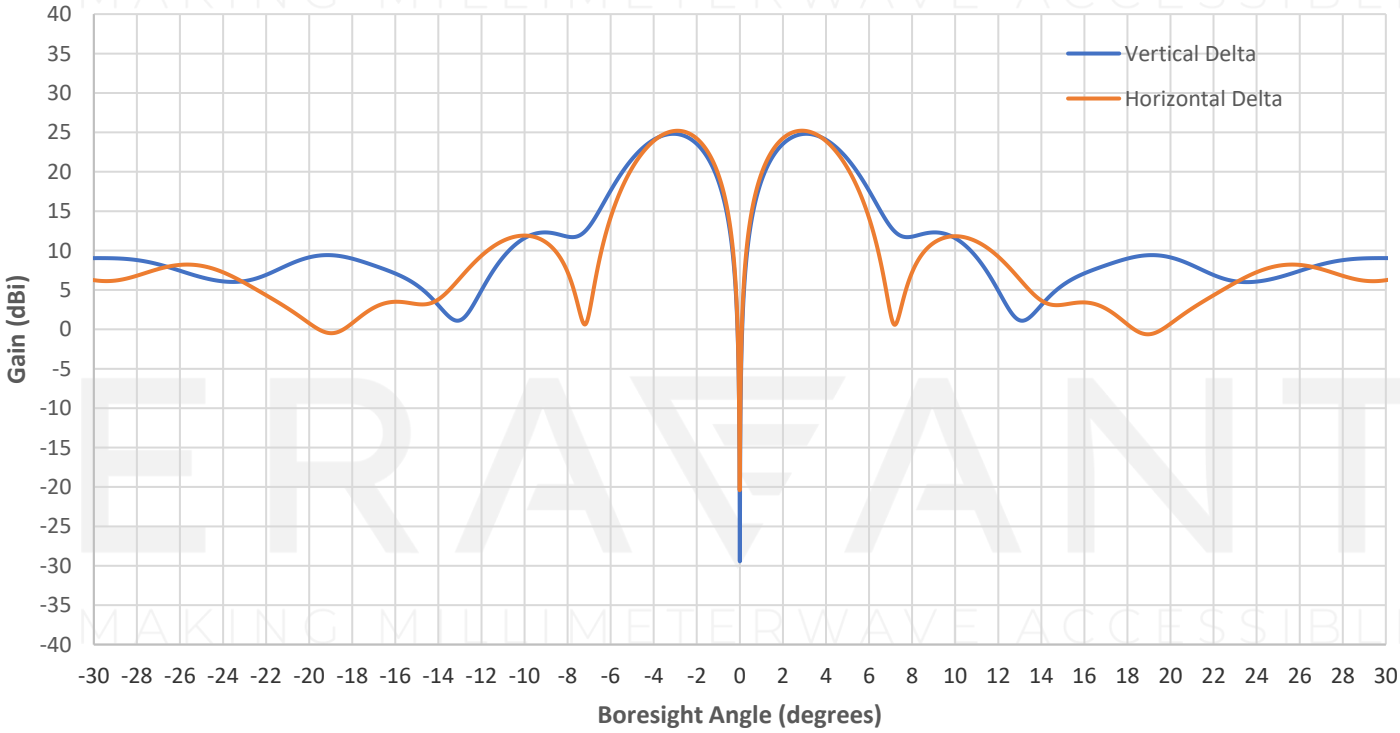
Simulated Patterns @ 35 GHz, Vertical & Horizontal Port



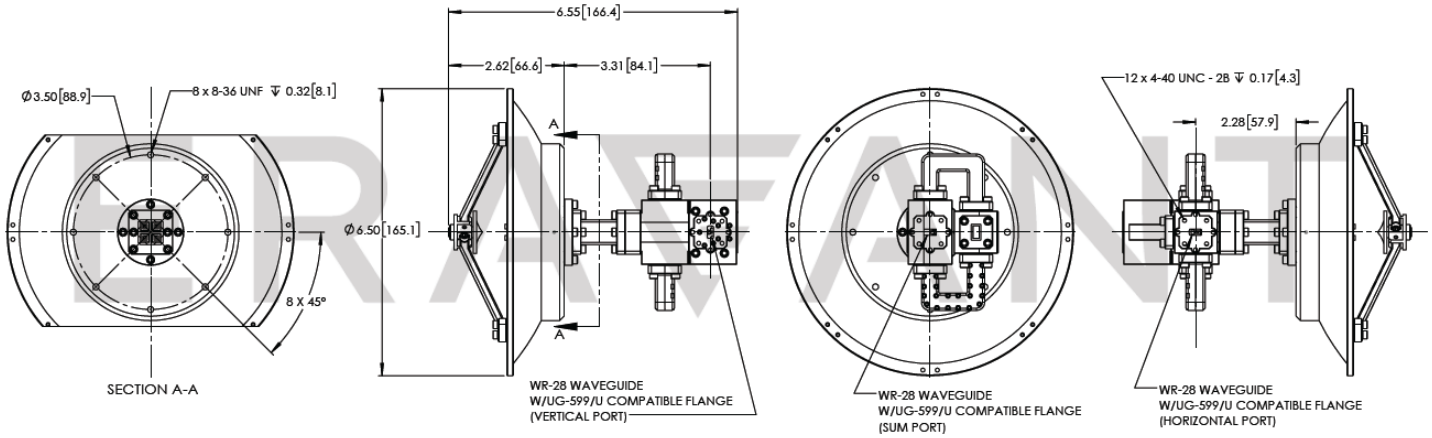
Simulated Patterns @ 36 GHz, Sum Port



Simulated Patterns @ 36 GHz, Vertical & Horizontal Port



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



NOTE:

- All data presented is simulated. Actual performance may vary slightly from unit to unit.
- 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.