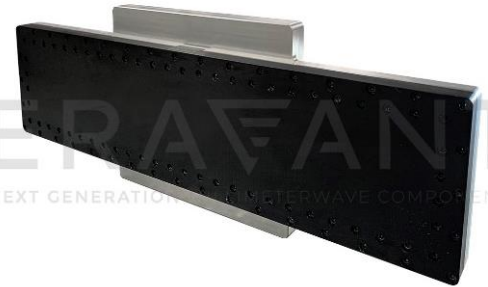


## SAW-9329522716-90-L2-WR

**X-Band Slotted Waveguide Array Antenna, 9.375 GHz,  
26 dBi, 19° x 3°**

**SAW-9329522716-90-L2-WR** is a weather resistant X-band slotted waveguide array antenna that operates from 9.275 to 9.475 GHz. The antenna offers 26 dBi nominal gain and a typical half power beamwidth of 19 degrees on the E-plane and 3 degrees on the H-plane, respectively. Compared to microstrip antennas, the slotted waveguide array antenna offers higher aperture efficiency. The antenna also offers typical side lobes of -15 dB or better and supports linear, vertical polarized waveforms. The antenna port is a WR-90 waveguide with UG-39/U grooved compatible flange.

**Electrical Specifications:**

| Parameter                 | Minimum   | Typical   | Maximum   |
|---------------------------|-----------|-----------|-----------|
| Frequency                 | 9.275 GHz | 9.375 GHz | 9.475 GHz |
| Gain                      |           | 26 dBi    |           |
| 3 dB Beamwidth, E-Plane   |           | 19°       |           |
| 3 dB Beamwidth, H-Plane   |           | 3°        |           |
| Side Lobe Level           |           | -15 dB    |           |
| Return Loss               |           | 13 dB     |           |
| Polarization              |           | Linear    |           |
| Specification Temperature |           | +25°C     |           |
| Operating Temperature     | -40°C     |           | +85°C     |

**Mechanical Specifications:**

| Item             | Specification  |
|------------------|--|
| Antenna Port     | WR-90 Waveguide with UG-39/U Grooved Compatible Flange |
| Radome Material  | Black Polycarbonate                                    |
| Housing Material | Aluminum   |
| Housing Finish   | Chem Film  |
| Weight           | 18 lbs.  |
| Outline          | AW-RX-0216-3-WR  |

**ECCN**

EAR99

**FEATURES**

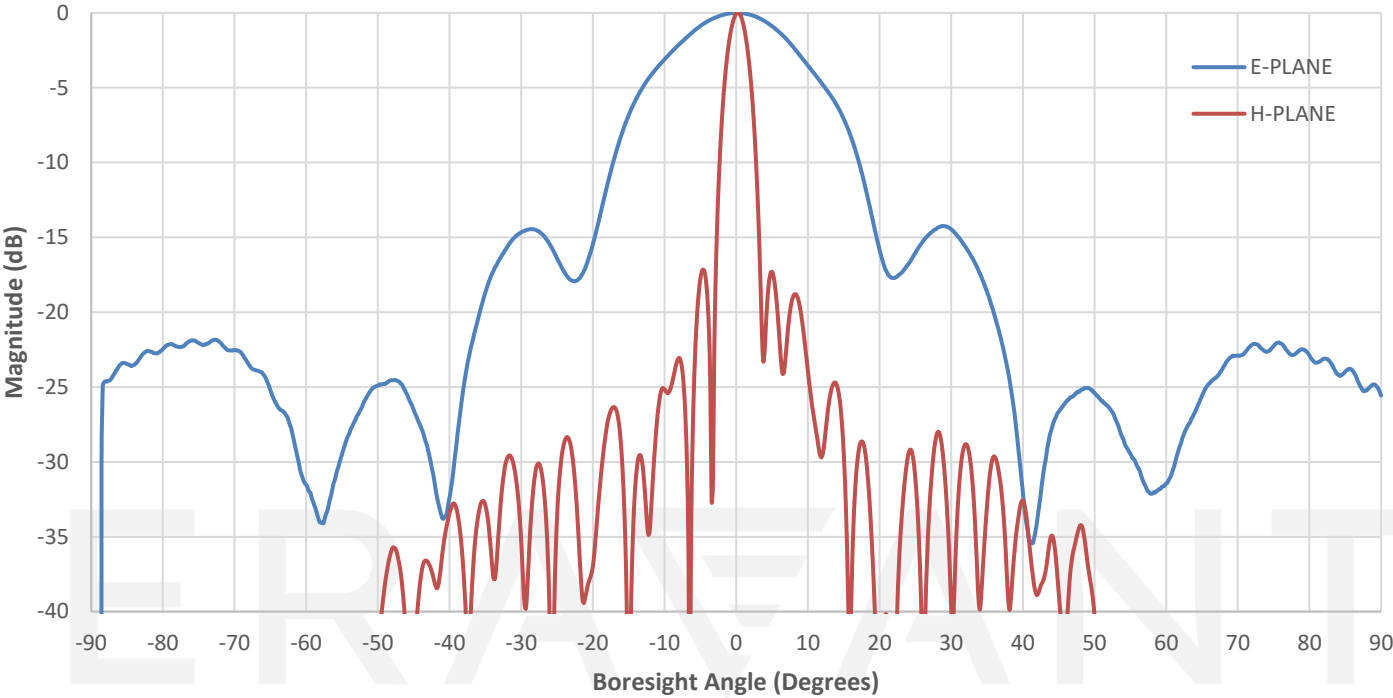
- Rectangular Waveguide Interface
- High Aperture Efficiency
- Flat and Low Profile
- Linear Polarization
- High Return Loss
- Weather Resistance

**APPLICATIONS**

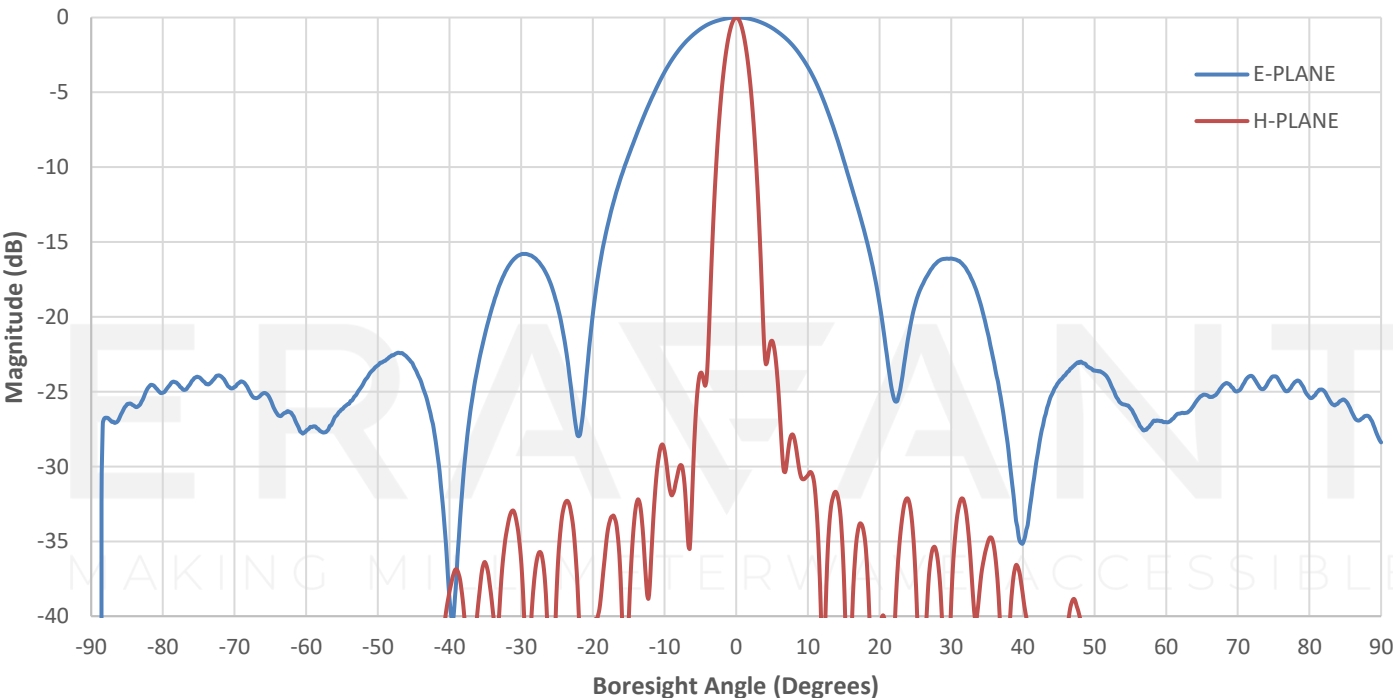
- Antenna Ranges
- Communications Systems
- Radar Systems



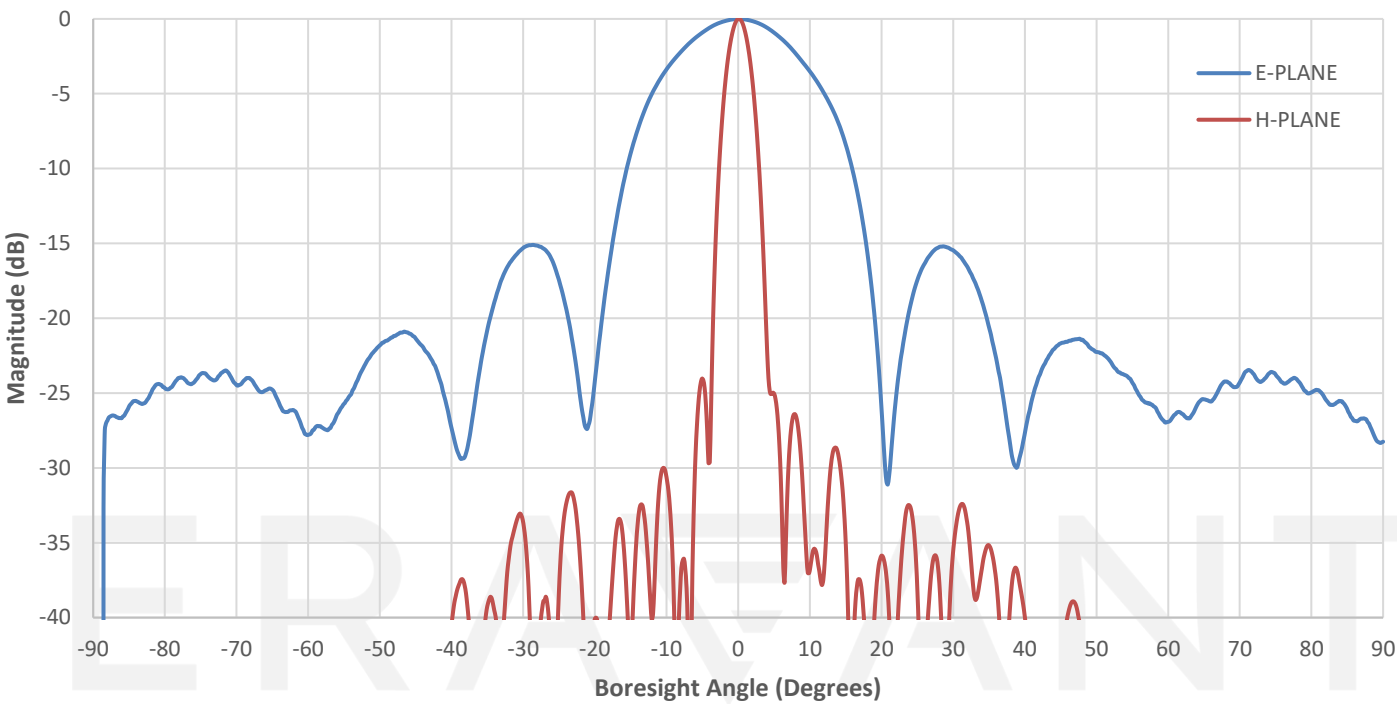
Typical Measured Antenna Patterns @ 9.275 GHz



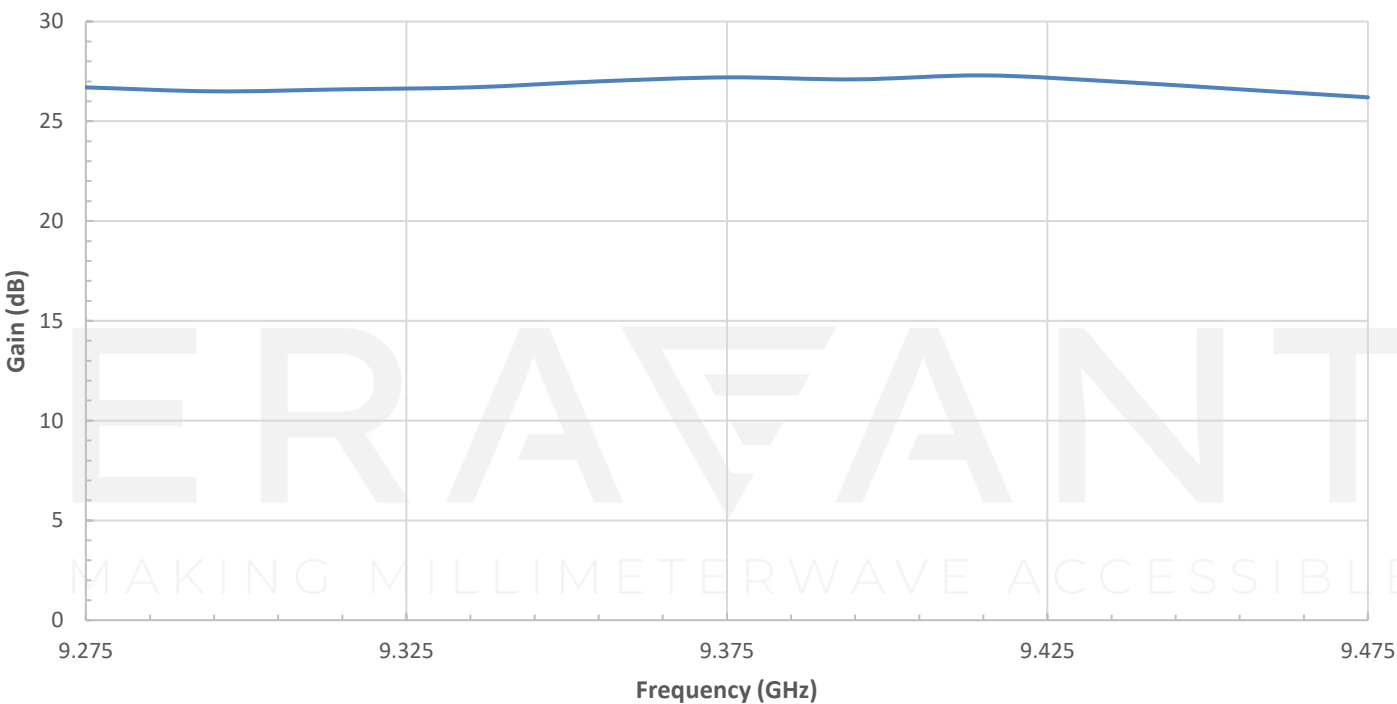
Typical Measured Antenna Patterns @ 9.375 GHz



Typical Measured Antenna Patterns @ 9.475 GHz

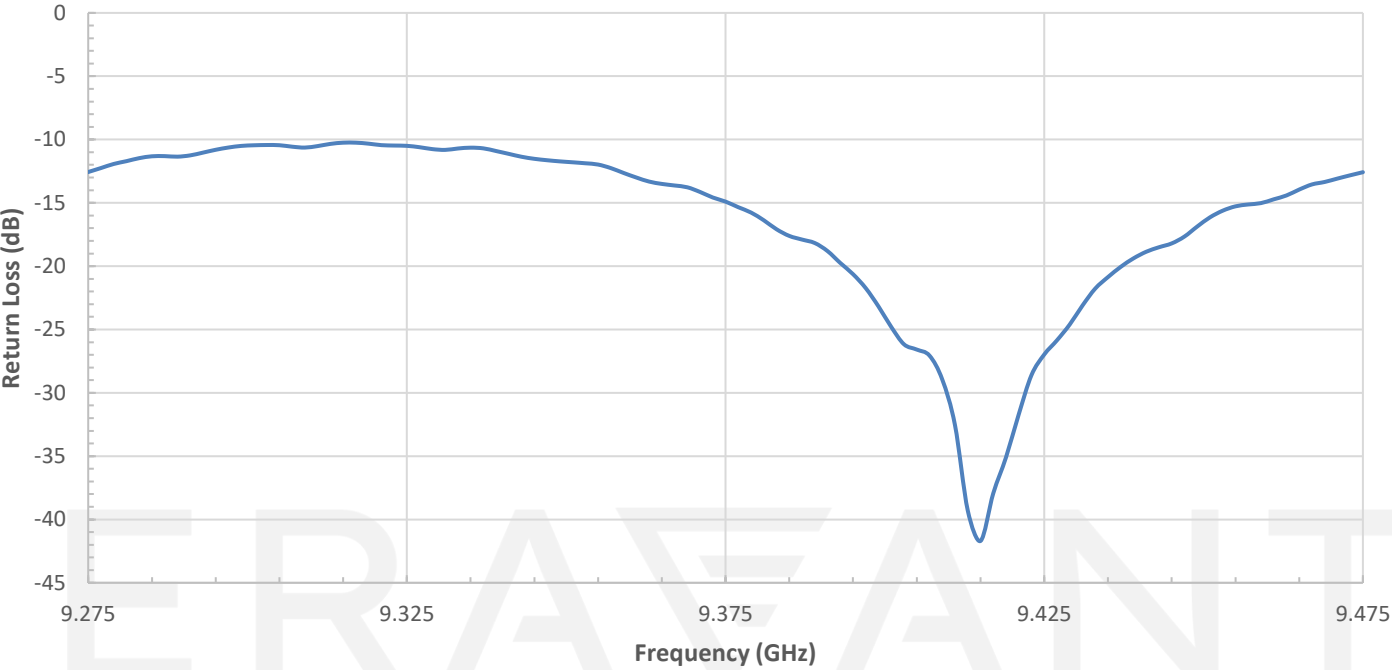


Typical Measured Gain vs Frequency



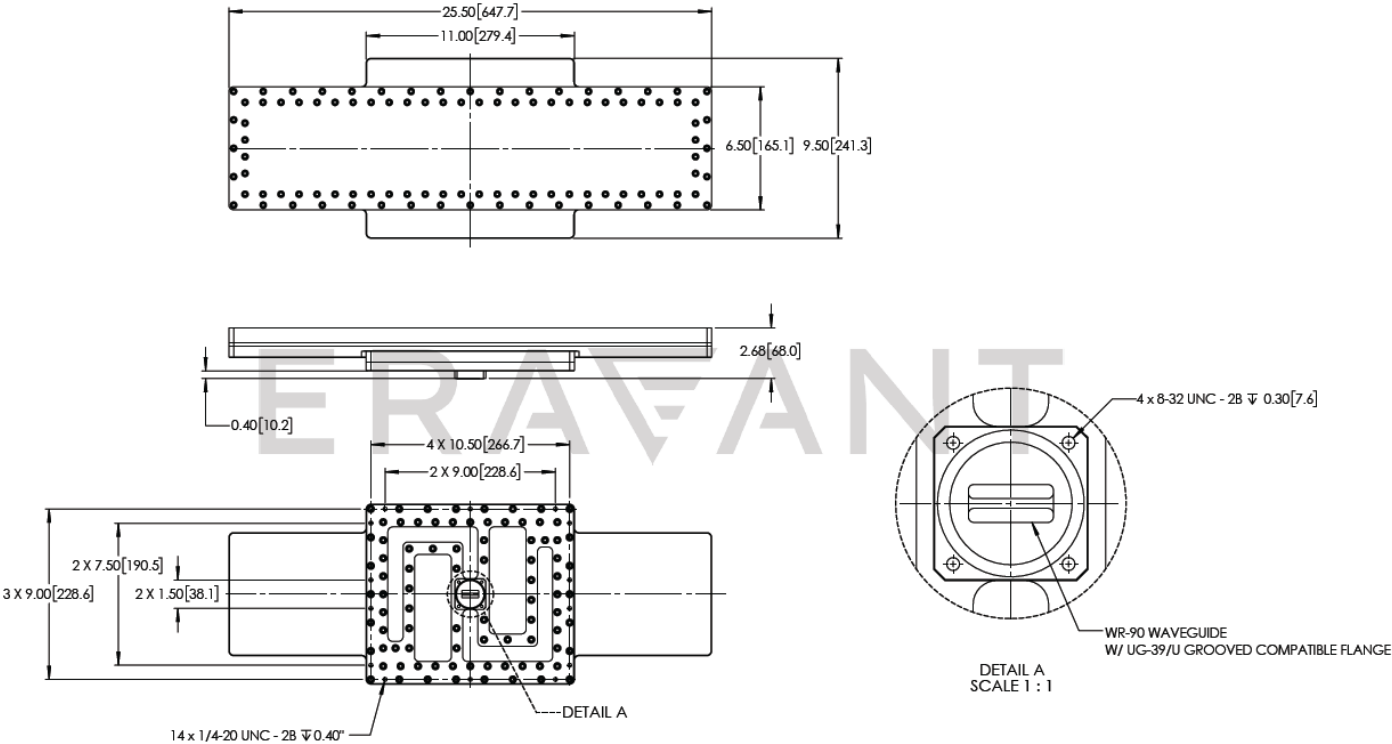
SAW-9329522716-90-L2-WR

Typical Measured Return Loss vs Frequency



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, slightly.
- All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

**CAUTION:**

- Any foreign objects in the antenna or waveguide will cause performance degradation and possible device damage.

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