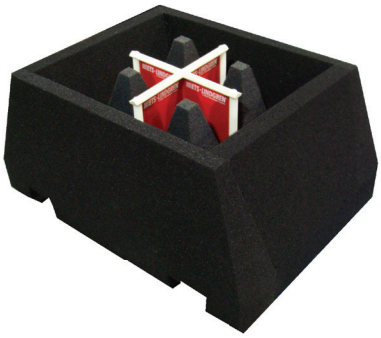
ANTENNA MODEL 3165-01



MODEL 3165-01

- **700 MHz to 6 GHz Frequency Range**
- **Low Reflectivity**
- **Dual Linearly Polarized**
- **Low VSWR with High Directivity**
- **Multiple Mounting Schemes**

ETS-Lindgren's Model 3165-01 Absorber Nested Dual-Polarized Dual-Vivaldi Array Antenna is designed for applications where source antenna effects must be minimized, such as chambers where the device under test (DUT) is illuminated from different directions.

Frequency Range

The Model 3165-01 has a frequency range of 700 MHz - 6 GHz, which covers most cell phone, Wi-Fi, WiMAX and GPS bands.

Low Reflectivity

This antenna is designed to be nested in the anechoic absorber lining of a chamber. Installed in this configuration, the Model 3165-01 antenna exhibits very low reflectivity, even when the input ports are mismatched. The normal incidence reflectivity is approximately -40 dB for a majority of the frequency range.

Dual-Linear Polarization

The Model 3165-01 is a dual-linearly polarized antenna, capable of measuring two orthogonal components of the field simultaneously.

Low VSWR with High Directivity

The Model 3165-01 possesses very low VSWR, while maintaining high directivity. This allows use in the illumination of DUTs, without affecting adjacent antennas in a multi-antenna installation.

Standard Configuration

- Antenna including the Selected Mounting (Specify when ordering):
  - MG - Magnetic Mount
  - SQ - Mounts to 50.8 mm (2 in x 2 in) Square Tube
  - RD - Mounts to 50 mm (1.96 in) Round Pipe
- Individually Calibrated at 1 m per the SAE ARP 958

Options

- Non-Metallic, Non-Reflective Tripod
- Custom Carrying Case

ANTENNA MODEL 3165-01

Technical Specifications

Electrical	
Frequency Minimum	700 MHz
Frequency Maximum	6 GHz
Impedance (Nominal)	50
Maximum Continuous Power	5 W
Cross Polarization Isolation	>25 dB
Connector	2 SMA (Female)
Pattern Type	Directional
Polarization	Dual Linear

Physical Specifications

Model	Aperture Height	Aperture Width	Length	Weight
3165-01-MG	17.8 cm (7.0 in)	19.0 cm (7.5 in)	19.0 cm (7.5 in)	1.3 kg (2.9 lb)
3165-01-SQ	35.5 cm (14.0 in)	35.5 cm (14.0 in)	36.3 cm (14.3 in)	2.6 kg (5.8 lb)
3165-01-RD	35.5 cm (14.0 in)	35.5 cm (14.0 in)	36.3 cm (14.3 in)	2.6 kg (5.8 lb)

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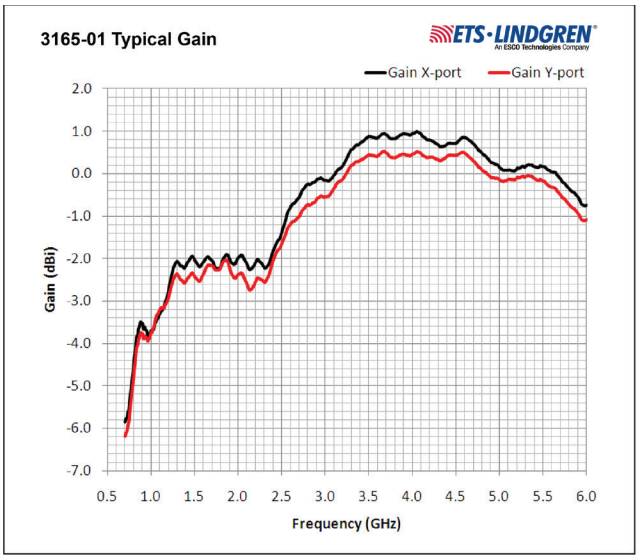

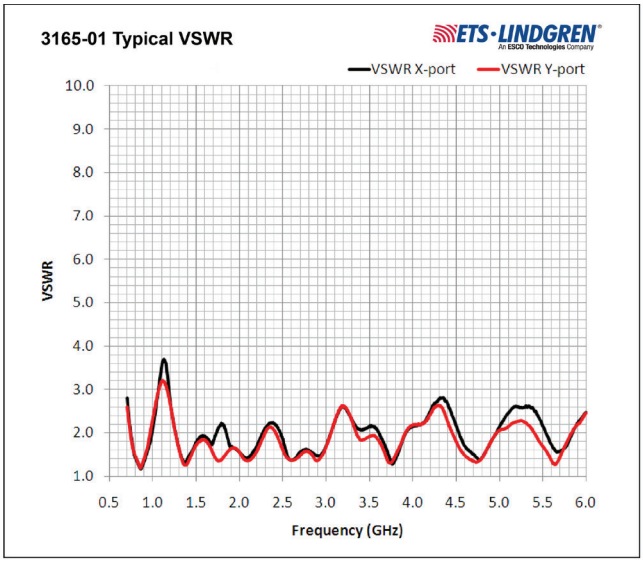

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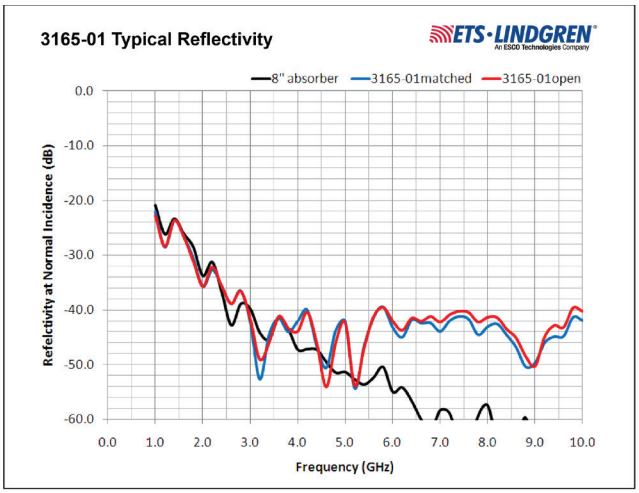

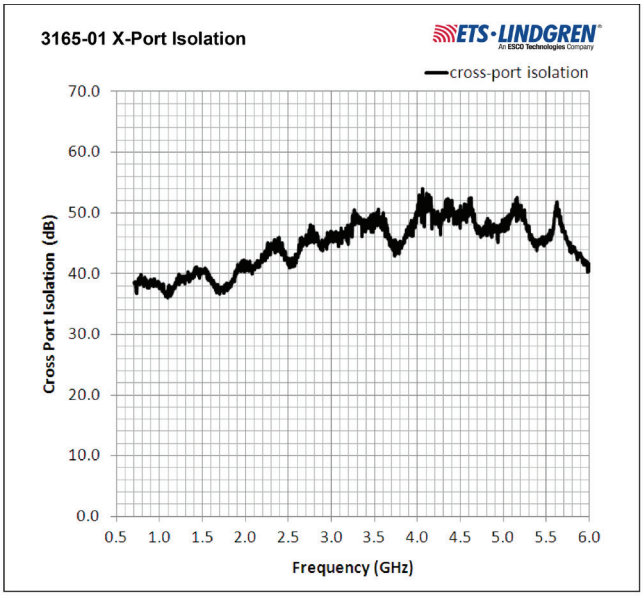

Information presented is subject to change as product enhancements are made.
Contact ETS-Lindgren Sales Department for current specifications.

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