

## ANTENNA MODEL 3184



### MODEL 3184

- 1 GHz to 18 GHz Frequency Range
- Omnidirectional Radiation Pattern Ideal for:
- Broadband Spectrum Monitoring
- Harmonics Level Measurement IEC 61000-4-3 Weatherizing Kit

**ETS-Lindgren's Model 3184 Broadband Mini-Bicon Antenna** is a radome-protected, broadband antenna with a frequency range of 1 GHz to 18 GHz. Its omnidirectional pattern and broadband frequency range make it ideal for surveying or spectrum monitoring, when used with a portable spectrum analyzer. A weatherizing kit is standard on the model 3184 for prolonged outdoor monitoring.

### Features

#### Frequency Range

The Model 3184 is designed to have the lowest possible VSWR across its range of operation. The antenna exhibits an average 2:1 VSWR.

#### Radiation Pattern

The radiation pattern of the Model 3184 is omnidirectional in the H-plane. This means the antenna can receive signals from every direction around its axis.

#### Spectrum Monitoring

The Model 3184 can be used for EM Field surveying and spectrum monitoring. The low weight design allows use as a field surveying tool, in conjunction with a portable spectrum analyzer.

#### IEC-61000-4-3

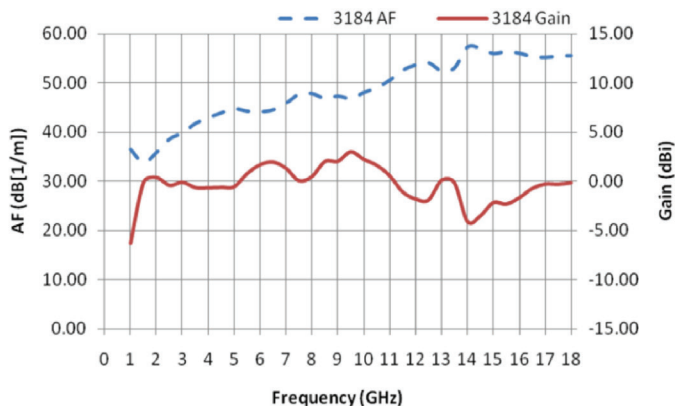
Because of its small size, the antenna can also be used for amplifier harmonic measurements per the IEC 61000-4-3 Radiated Immunity Test.

### Technical Specifications

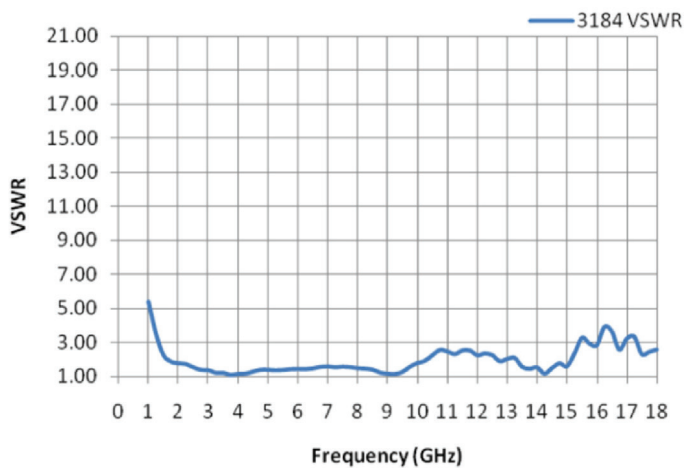
Electrical	
Frequency Minimum	1 GHz
Frequency Maximum	18 GHz
Impedance (Nominal)	50
Maximum Continuous Power	50 W @ 1 GHz, 25 W @ 18 GHz
Pattern Type	Omnidirectional
Polarization	Linear
VSWR Ratio (Average)	2:1
Connectors	SMA (F)
Physical	
Length	37.1 cm (14.6 in)
Width	15.2 cm (6.00 in)
Stinger Length	17.0 cm (6.7 in)
Weight	0.65 kg (1.43 lb)

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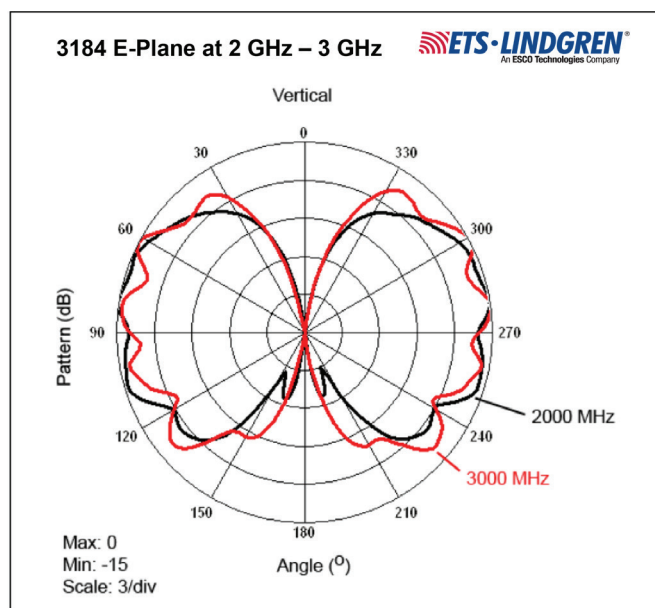
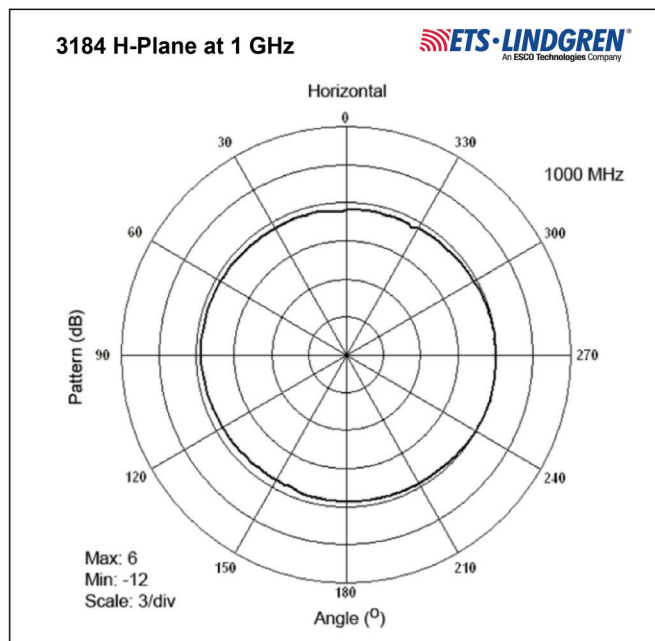
3184 Typical Antenna Factor and Gain



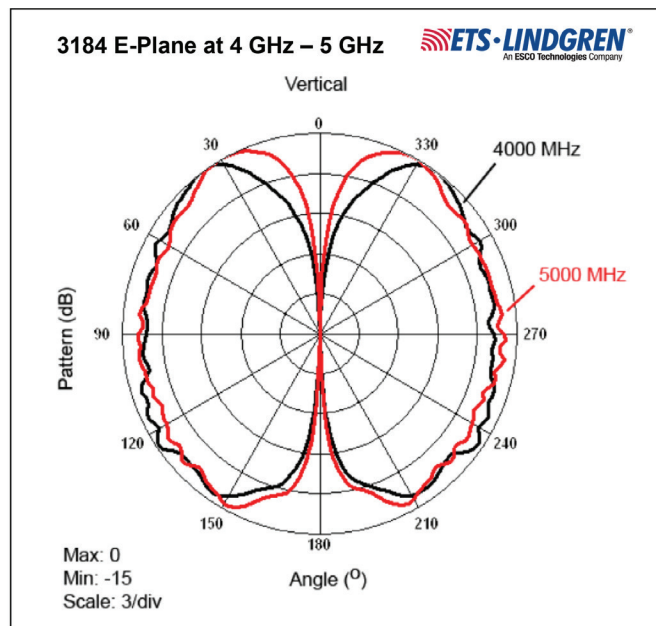
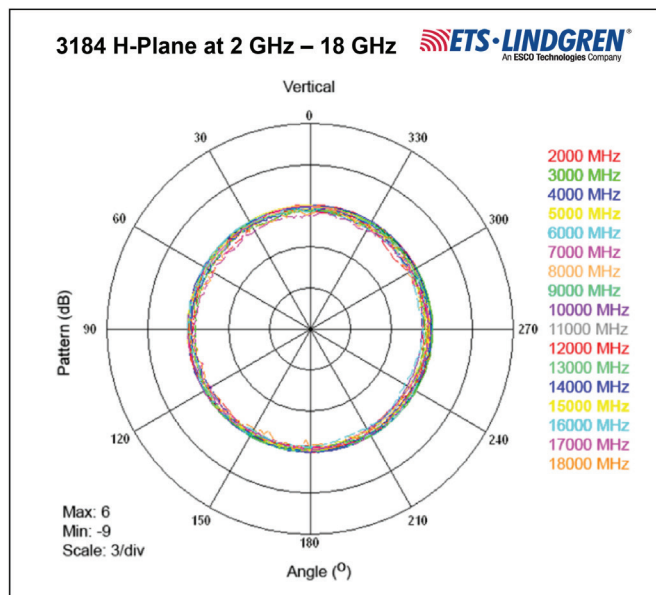
3184 Typical VSWR



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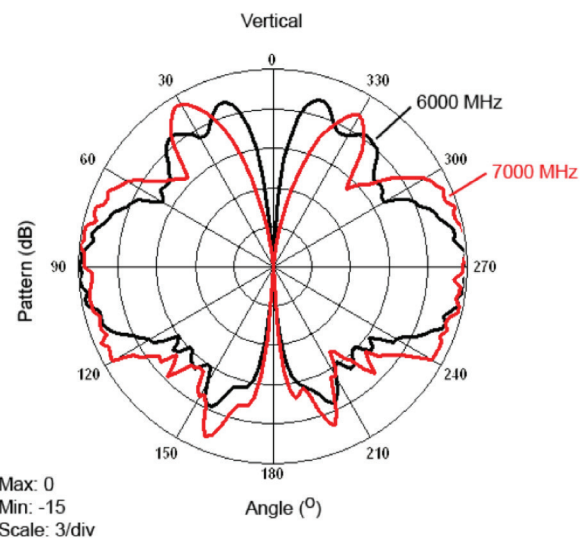


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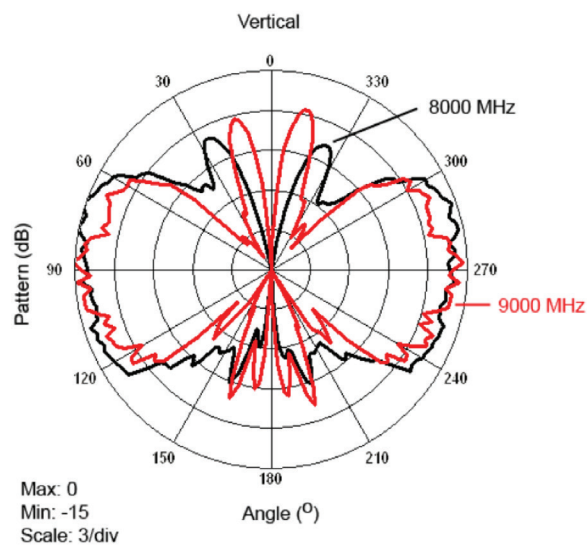


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3184 E-Plane at 6 GHz – 7 GHz

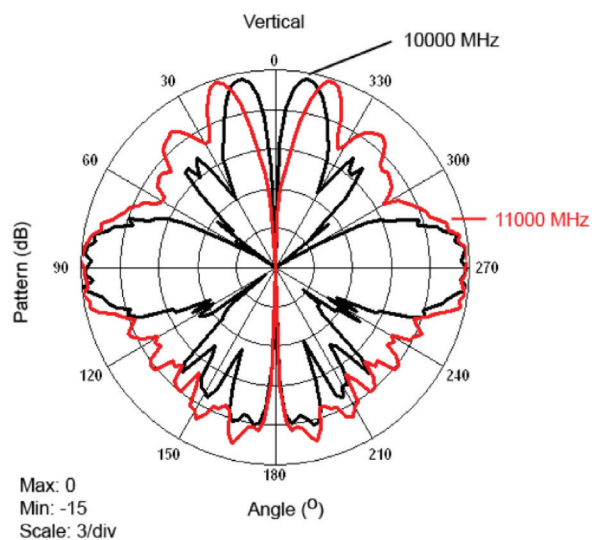


3184 E-Plane at 8 GHz – 9 GHz

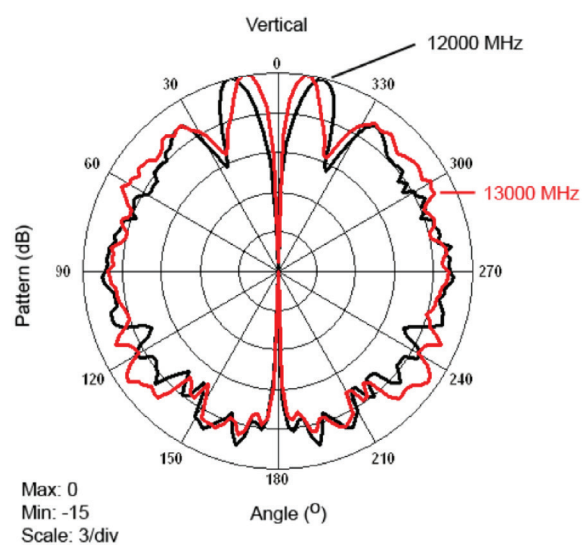


## ANTENNA MODEL 3184

3184 E-Plane at 10 GHz – 11 GHz **ETS·LINDGREN**  
An ESCO Technologies Company

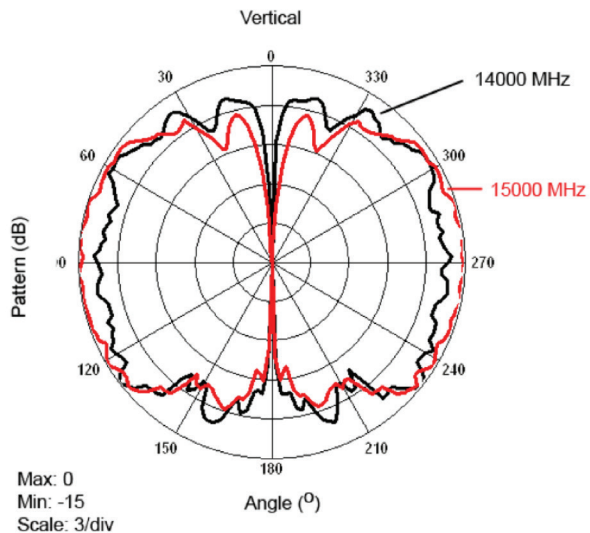


3184 E-Plane at 12 GHz – 13 GHz **ETS·LINDGREN**  
An ESCO Technologies Company

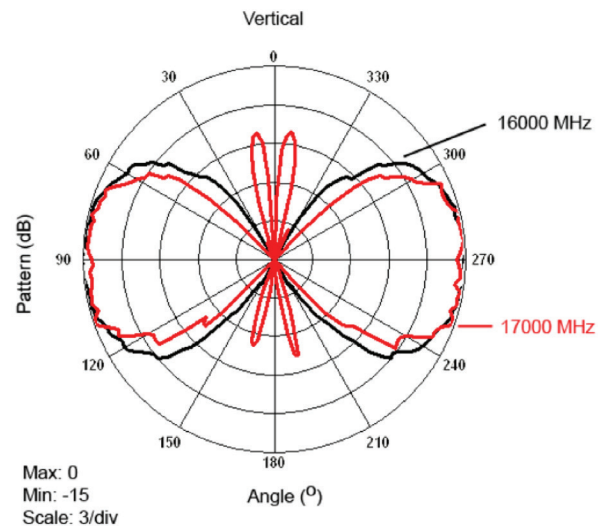


## ANTENNA MODEL 3184

3184 E-Plane at 14 GHz – 15 GHz **ETS·LINDGREN**  
An ESCO Technologies Company



3184 E-Plane at 16 GHz – 17 GHz **ETS·LINDGREN**  
An ESCO Technologies Company



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