

ANTENNAS MODEL 3185 MINI-BICON ANTENNA



MODEL 3185

- 18 to 40 GHz Broadband with Full Coverage in a Single Antenna
- Vertical Polarization, First of its Kind at mmWave Frequencies
- Low VSWR Across the Operating Frequency Range
- Omni-directional H-plane Performance Plane Pattern and Azimuthal Symmetry vs Frequency
- Standards-ready Design for CISPR 16-1-4 and ANSI C63.25.3 Chamber Validation

ETS-Lindgren's Model 3185 Mini-Bicon Antenna is a first-of-its-kind broadband solution for high-frequency EMC chamber validation. Covering the full 18 GHz to 40 GHz frequency range in a single vertically polarized antenna, it eliminates the need for multiple antennas while delivering stable, repeatable performance across the entire operating band.

Designed specifically for CISPR 16-1-4 chamber validation and emerging ANSI C63.25.3 site validation requirements, the Model 3185 provides consistent broadband performance with low VSWR and omnidirectional radiation characteristics in the H-plane. Its compact design simplifies chamber setup while improving measurement repeatability and reducing overall test uncertainty.

When paired with the ETS-Lindgren Model 3188 Broadband Magnetic Dipole Antenna, laboratories gain complete vertical and horizontal polarization coverage for next-generation chamber validation.

Note: This is a Product Roadmap item with a projected release Q4 2026. All information is preliminary and subject to change.

Technical Specifications

Electrical	
Frequency Minimum	18 GHz
Frequency Maximum	40 GHz
Impedance (Nominal)	50
Maximum Continuous Power	0.5 W (27 dBm) at 40 GHz
Pattern Type	Omnidirectional
Polarization	Vertical
VSWR (Average)	3:1
Connectors	2.92 mm Female
Physical	
Height	16 cm (6.3 in)
Width	5.4 cm (2.1 in)
Weight	0.5 kg (1.1 lb)

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