

ANTENNAS MODEL 3188 BROADBAND MAGNETIC DIPOLE ANTENNA



MODEL 3188

- 18 to 40 GHz Broadband with Full Coverage in a Single Antenna
- Horizontal Polarization, First of its Kind at mmWave Frequencies
- Stable Elevation Plane Pattern and Azimuthal Symmetry vs Frequency
- Standards-ready Design for ANSI C63.25.3

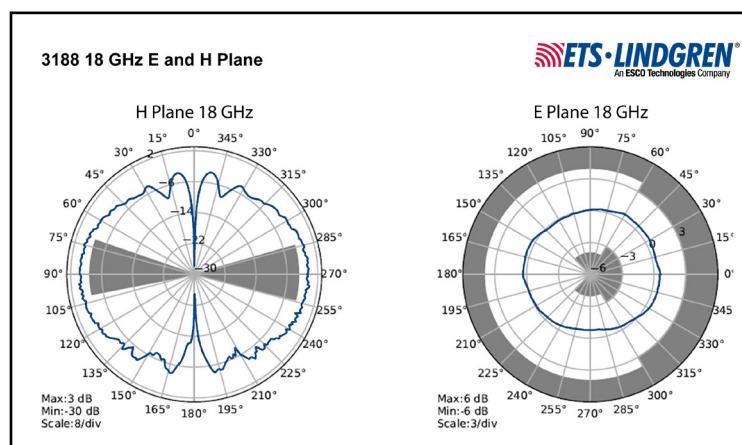
ETS-Lindgren's Model 3188 Broadband Magnetic Dipole Antenna is a groundbreaking solution for high-frequency EMC testing, covering the 18 to 40 GHz range with horizontal polarization and excellent azimuthal symmetry of less than ± 1.5 dB across the entire band. As the first horizontally polarized antenna of its kind, the 3188 complements the vertically polarized Model 3185 Mini-Bicon and represents a significant advancement in antenna design at millimeter-wave frequencies.

Magnetic dipole antennas at these frequencies are exceptionally rare, and conventional designs are typically narrow-band—often requiring the use of more than ten antennas to cover the full 18 to 40 GHz span. The Model 3188 solves this challenge by delivering true broadband performance in a single antenna while maintaining consistent pattern stability. Its design is also aligned with the upcoming ANSI C63.25.3 standard for site validation, making it a forward-looking solution for cutting-edge EMC labs preparing for next-generation compliance requirements.

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	Horizontal
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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