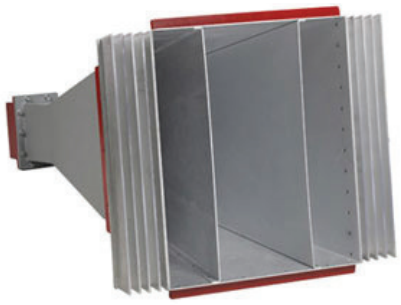
FIELD GENERATING ANTENNA MODEL 3162-01



MODEL 3162-01

- **1.1 GHz to 1.5 GHz Frequency Range**
- **Generates 600 V/m with < 500W**
- **Meets Specs for:**
  - **GMW 3097**
  - **ES-XW7T-1A278-AC**

ETS-Lindgren's Model 3162-01 Field Generating Pyramidal High Gain Horn is specifically engineered for automotive radar pulse immunity testing, meeting the stringent requirements of GMW 3097 and Ford ES-XW7T-1A278-AC specifications. These automotive EMC standards mandate that the Equipment Under Test (EUT) be exposed to a pulsed peak electric field strength of 600 V/m at a test distance of 100 cm (3.28 ft) from the horn aperture.

Traditional horn antennas often struggle to achieve this requirement at such a short distance due to near-field gain compression, a phenomenon where the radiated field strength deviates from the expected far-field behavior. As a result, many standard high-gain horns fail to deliver the required field intensity without excessive input power.

The Model 3162-01 solves this challenge through a carefully optimized near-field radiation pattern, designed to maintain high field uniformity and maximize electric field strength at the specified 1-meter test distance. Through its specialized pyramidal design and precise gain characteristics, the 3162-01 can reliably produce a 600 V/m pulsed field level using less than 500 W of input power—significantly reducing amplifier requirements and improving test efficiency.

Technical Specifications

Electrical	
Frequency Minimum	1.1 GHz
Frequency Maximum	1.5 GHz
Impedance (Nominal)	50
Maximum Continuous Power	550 W
Pattern Type	Directional
Polarization	Linear
VSWR (Maximum)	2:1
VSWR (Typical)	1.5:1
Connectors	Type N
Physical	
Length	160.27 cm (63.10 in)
Width	64.77 cm (25.50 in)
Height	74.68 cm (29.40 in)
Weight	23.6 kg (52.03 lb)

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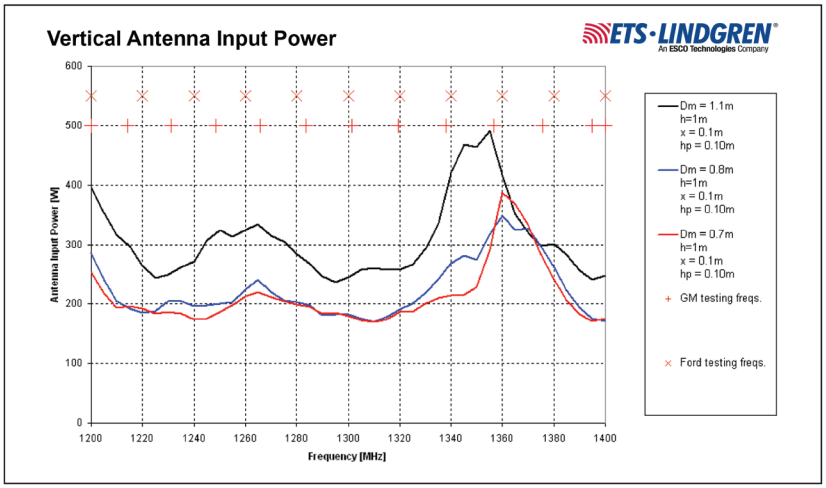

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