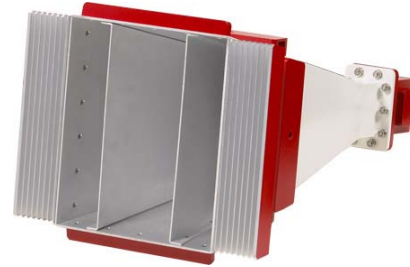


**Features:**

- 2.7 GHz to 3.1 GHz Frequency Range
- Meets Specs for ES-XW7T-1A278-AC
- Generates 600 V/m with <300 W



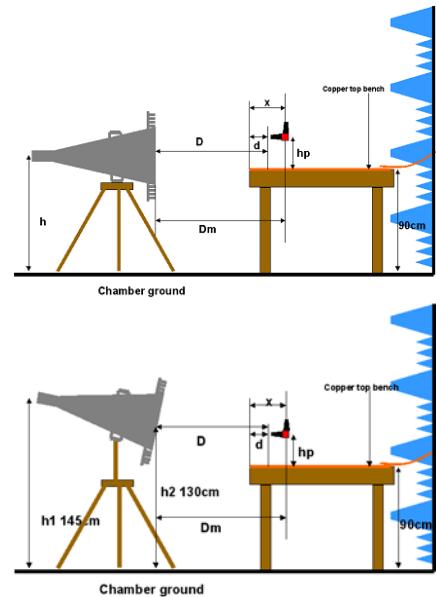
ETS-Lindgren's Model 3162-02 Field Generating Pyramidal Horn

**ETS-Lindgren's EMCO Model 3162-02 Pyramidal Type High Gain Horn** was specifically developed for the ES-XW7T-1A278-AC specification for automotive EMC components testing. This test requires that the EUT be exposed to a pulsed peak field level of 600 V/m at a distance of 100 cm from the front of the horn. Because of near field gain compression, most horns fail to meet this spec at the required test distance. The Model 3162-02 optimizes the near field behavior to overcome this problem, and produces a field level of 600 V/m with input power of less than 300 W.

**Technical Description**

The Model 3162-02 is a pyramidal horn antenna with nominal dimensions of 53.3 cm long by 30.1 cm wide by 44.5 cm high. The horn aperture is 26.5 cm by 23.0 cm and has extended ground planes with chokes for better gain on each side, measuring 12.5 cm.

**Typical Test Setup**



**Standard Configuration**

- Pyramidal horn antenna with a coax to waveguide adapter
- Two-year warranty

**Electrical Specifications**

MODEL	FREQUENCY RANGE	VSWR RATIO	MAXIMUM CONTINUOUS INPUT POWER	INPUT IMPEDANCE	RF CONNECTORS
3162-02	2.7 GHz - 3.1 GHz	1.5:1 Typical 2:1 Maximum	500W	50 Ω	Female Type N

**Physical Specifications**

MODEL	LENGTH	WIDTH	HEIGHT	WEIGHT
3162-02	79.2 cm	44.2 cm	58.4 cm	10.0 kg
	31.2 in	17.4 in	23.0 in	22.0 lbs

## Typical Measured Performance, With Bench Present Horizontal Horn

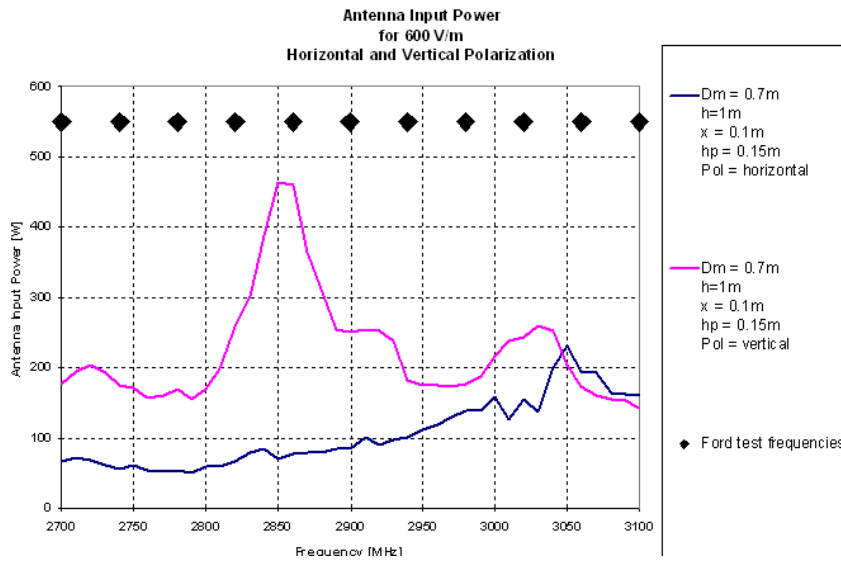


Figure 1. Field vs. frequency. The plot shows measured field levels at 1m scaled for a 300 W input .

## Typical Measured Performance, With Bench Present Vertical Horn

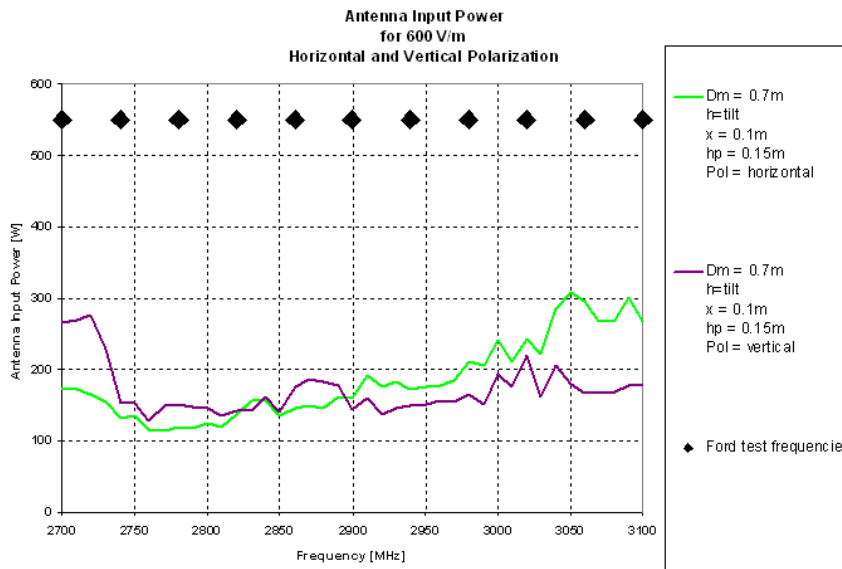


Figure 2. Field vs. frequency. The plot shows measured field levels at 1m scaled for a 300 W input .