

3162-02 FIELD GENERATING ANTENNA

ETS-Lindgren's Model 3162-02 Field Generating Pyramidal High Gain Horn was specifically developed for the ES-XW7T-1A278- AC specification for radar pulse testing.



ETS-Lindgren's Model 3162-02 Field Generating Pyramidal High Gain Horn was specifically developed for the ES-XW7T-1A278- AC specification for radar pulse 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 (39.37 in) from the front of the horn.

Because of near field gain compression, most horns fail to meet this specification 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.

The Model 3162-02 is a pyramidal horn antenna with nominal dimensions of 70.1 cm L x 30.7 cm W x 36.6 cm H (27.6 in x 12.1 in x 14.4 in) and has extended ground planes with chokes for better gain on each side.

Key Features

- Frequency Minimum: 2.7 GHz; Frequency Maximum 3.1 GHz.
- Generates 600 V/m with < 300W
- Meets Specs for ES-XW7T-1A278-AC

Specifications

Electrical Specifications

Frequency Minimum: 2.7 GHz
Frequency Maximum: 3.1 GHz
Impedance (Nominal): 50 Ω
Maximum Continuous Power: 550 W
Pattern Type: Directional
Polarization: Linear
VSWR Maximum: 2:1
VSWR Typical: 1.5:1
Connectors: Type N

Physical Specifications

Length: 70.1 cm (27.6 in)
Width: 30.7 cm (12.1 in)
Height: 36.6 cm (14.4 in)
Weight: 10.0 kg (22.05 lb)

Other Specifications

- Pyramidal Horn Antenna with a Coax to Waveguide Adapter
- Two-year Warranty

Product Charts

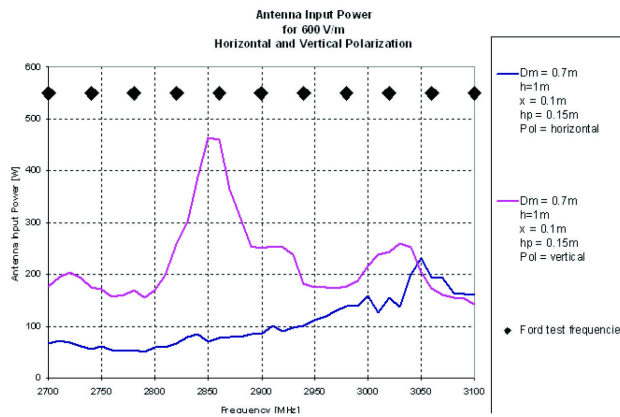


Figure 1. Field vs. frequency. The plot shows measured field levels at 1m scaled for a 300 W input .

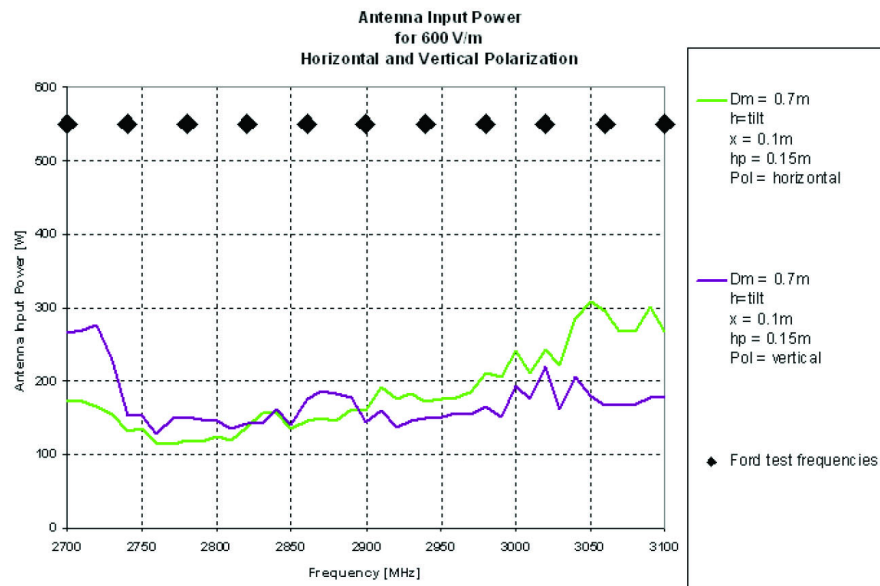


Figure 2. Field vs. frequency. The plot shows measured field levels at 1m scaled for a 300 W input .