# HIGH GAIN CONICAL HORN ANTENNAS MODEL 3163

Model 3163-06

Model 3163-05

Model 3163-04

Model 3163-05

**MODEL 3163**

- **Series Frequency Range: 4 GHz to 26.5 GHz**
- **Conical Shape**
- **High Gain, Low VSWR**

**ETS-Lindgren's Model 3163 Series Conical Horns** are high gain antennas, designed for use as feeds in tapered anechoic chambers, as well as in applications requiring high gain and linear polarization. These high gain horns exhibit improved reflectivity levels in the quiet zone (QZ) of tapered chambers, with low VSWR across the range. For flexible use, the 3163 series can be mounted directly into the feed section of a tapered chamber, or mounted to a tripod and used in a rectangular chamber.

**Standard Configuration**

- Antenna (Specify Model)
- Coaxial to Waveguide Adapter
- Mount for Tripod
- Manual
- Individually calibrated at 3m per SAE ARP 958. Actual antenna factors/gain uncertainty values and a signed Certificate of Calibration Conformance included with manual.

**Technical Specifications**

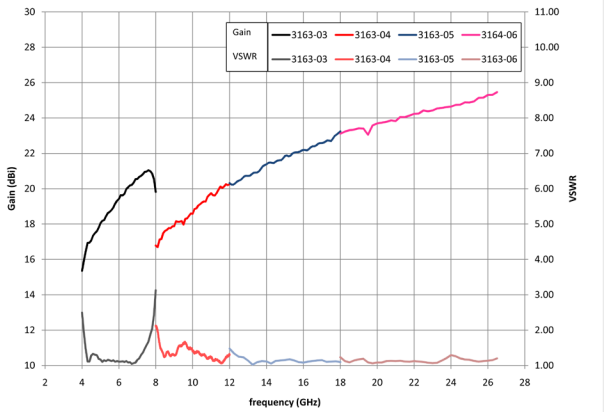
**Electrical**

| Model | Frequency Range | VSWR Ratio | Max. Continuous Power | Impedance (Nominal) | Connectors |
|---|---|---|---|---|---|
| 3163-03 | 4 GHz to 8 GHz | 3.2:1 Max<br>1.5:1 Avg | 250W | 50 Ω | Type N (F) |
| 3163-04: | 8 GHz to 12 GHz | 3.2:1 Max<br>1.5:1 Avg | 250W | 50 Ω | Type N (F) |
| 3163-05 | 12 GHz to 18 GHz | 3.2:1 Max<br>1.5:1 Avg | 250W | 50 Ω | Type N (F) |
| 3163-06 | 18 GHz to 26.5 GHz | 3.2:1 Max<br>1.5:1 Avg | 50W | 50 Ω | SMA (F) |

**Physical**

| Model | Aperture Diameter | Length (Without Mount) | Weight |
|---|---|---|---|
| 3163-03 | 17.8 cm | 60.0 cm | 1.8 kg |
| | 7.0 in | 23.5 in | 4.0 lb |
| 3163-04 | 10.2 cm | 37.0 cm | 0.5 kg |
| | 4.0 in | 14.6 in | 1.2 lb |
| 3163-05 | 10.2 cm | 39.0 cm | 0.6 kg |
| | 4.0 in | 15.3 in | 1.4 lb |
| 3163-06 | 10.2 kg | 38.0 kg | 0.5 kg |
| | 4.0 lbs | 14.8 lbs | 1.2 lb |

**Gain/VSWR Typical Performance**

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