FEATURES:

- 1 GHz to 18 GHz Frequency Range
- Designed for MIL-STD-461
- Fitted with a Pre-amplifier for Increased Sensitivity
- Pre-amp and Antenna Calibrated as a Single Unit
- Extremely Low AF
- Flexible Mounting

ETS-LINDGREN’S MODEL 3115-PA is our popular Model 3115, fitted with a pre-amplifier package and calibrated as a single unit. In this configuration, any possible mismatches between antenna and pre-amplifier are taken into account in the antenna factor (AF) which is provided with this unit.

FEATURES

Frequency Range
This antenna covers the 1 GHz to 18 GHz range making it ideal as a receive antenna for any emissions testing above 1 GHz.

Designed for MIL-STD-461
The Model 3115 Horn Antenna (without pre-amp) is identical to the antenna described in MIL-STD-461 RE102, for emissions testing above 1 GHz.

Fitted Amplifier
The pre-amplifier attached to the antenna has a frequency range of 1 GHz to 18 GHz and a typical gain of 45 dB. The gain flatness across the range is ± 2.5 dB. The pre-amplifier has a maximum noise figure of 4 dB maximum with the typical noise figure being 3 dB. The power output is +17 dB minimum at the 1 dB point. The input and output characteristics of the preamplifier are an Input and output VSWR of 2:1 maximum.

Calibrated as Single Unit
The 3115-PA is calibrated as a single unit, so uncertainty values are reduced.

Low Antenna Factor
Single-unit calibration also provides an extremely low AF that is less than 0 dB(1/m) for the entire frequency range.

Flexible Mounting
The Model 3115-PA includes both a ¼ 20 thread classic mount and a rear “stinger” mount.

STANDARD CONFIGURATION

- Antenna and Pre-amplifier
- Mounting Bracket for ¼ 20 Threads
- Rear Stinger Mount
- AC/DC Power Supply for the Pre-amplifier Module
- Individually Calibrated Factors at 1m and 3m per SAE ARP 958
- Manual

OPTIONS

- 4-TR Tripod
- 7-TR Tripod

www.ets-lindgren.com
**Electrical Specifications**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FREQUENCY RANGE</th>
<th>VSWR (AVG)</th>
<th>MAXIMUM CONTINUOUS POWER</th>
<th>IMPEDANCE (NOMINAL)</th>
<th>CONNECTOR TYPE</th>
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</thead>
<tbody>
<tr>
<td>3115-PA</td>
<td>1 GHz to 18 GHz</td>
<td>N/A (Rx Only)</td>
<td>N/A (Rx Only)</td>
<td>50 Ω</td>
<td>SMA (Female)</td>
</tr>
</tbody>
</table>

**Physical Specifications**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LENGTH*</th>
<th>WIDTH</th>
<th>HEIGHT*</th>
<th>WEIGHT</th>
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</thead>
<tbody>
<tr>
<td>3115-PA</td>
<td>36.1 cm</td>
<td>24.2 cm</td>
<td>24.8 cm</td>
<td>2.5 kg</td>
</tr>
<tr>
<td></td>
<td>14.1 in</td>
<td>9.5 in</td>
<td>9.8 in</td>
<td>5.5 lb</td>
</tr>
</tbody>
</table>

*Includes stinger and pre-amplifier box.

**Model 3115-PA Typical Antenna Factor and Gain**

[Graph showing Antenna Factor and Gain for Model 3115-PA]