**2726 Series**

**Vertically Polarized, Log Periodic Antennas**

- 2.5-32 MHz Frequency Range
- Up to 10 KW Average, 20 KW Peak Power Rating
- Vertical Polarization
- 2.0:1 Maximum VSWR
- Long-Range HF Communications
- Minimum Tower Height
- Minimum Space Required

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**General Description**

The 2726 Series is a family of monopole log-periodic arrays, the most economic configuration which can effectively radiate at broadband HF frequencies as low as 2.5 MHz. The antennas are intended for either point-to-point communications or sector broadcast.

Radiation patterns, characterized by a high-gain lobe directed close to the horizon, are nearly constant at all operating frequencies. The vertical beamwidth is sufficiently narrow to provide high directive gain, yet broad enough to encompass the range of take-off angles required by diverse ionospheric conditions. Side and back lobes are virtually absent, thereby minimizing off-path interference.

**Features**

**Strength and Durability.** The 2726 Series antennas have been carefully designed to create a high, strong, resilient structure and will operate for long periods in harsh environments. Radiators are high-strength bronze wire. The supporting catenary is fiberglass rod bonded to aluminum fittings. All materials have been selected for maximum resistance to corrosive environments, such as salt spray, tropical locations and industrial regions.

**Ease of Assembly and Installation.** Towers are shipped unassembled and are easily assembled in the field through interconnection of three vertical rails. All parts are supplied. Antennas can be erected without a crane, using an erection fixture available as an option.

**Accessories.** The following accessories are available for ease of installation and maintenance: tower lighting kit, erection kit, paint kit, tool kit, lightning rod kit, anti-climbing kit and spares kit.

**Characteristics**

<table>
<thead>
<tr>
<th>Type</th>
<th>HF Monopole log-periodic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range, MHz</td>
<td>2.5-32 or 3.5-32</td>
</tr>
<tr>
<td>Power Rating, KW</td>
<td>Up to 10 average, 20 peak</td>
</tr>
<tr>
<td>Polarization</td>
<td>Vertical</td>
</tr>
<tr>
<td>VSWR</td>
<td>2.0:1 maximum</td>
</tr>
<tr>
<td>Gain, dBi</td>
<td>Greater than 10 over perfect ground</td>
</tr>
<tr>
<td>Wind survival Rating, mph (km/h)</td>
<td>120 (190)</td>
</tr>
<tr>
<td></td>
<td>With 1/2 in (12mm) Radial Ice</td>
</tr>
</tbody>
</table>
2726 Series Vertical Log Periodic Antenna

Configuration of All Series 2726 Antennas

Typical 2726 Radiation Patterns
(Relative to Isotropic)

2.5 MHz

15 MHz

30 MHz

VSWR for Model 2726-2K

Azimuth Plane
Elevation Plane
Max. Gain: 10.8 dBi

Azimuth Plane
Elevation Plane
Max. Gain: 11.2 dBi

Azimuth Plane
Elevation Plane
Max. Gain: 11 dBi
# 2726 Series Vertical Log Periodic Antenna

## Ordering Information

<table>
<thead>
<tr>
<th>Type Number</th>
<th>2726-1K</th>
<th>2726-2K</th>
<th>2726-3K</th>
<th>2726-4K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range, MHz</td>
<td>2.5-32</td>
<td>2.5-32</td>
<td>3.5-32</td>
<td>3.5-32</td>
</tr>
<tr>
<td>Power Rating, kW</td>
<td>Receive Only</td>
<td>10 Average, 20 Peak</td>
<td>Receive Only</td>
<td>10 Average, 20 Peak</td>
</tr>
<tr>
<td>Input Impedance, Ohms</td>
<td>50, Coaxial</td>
<td>50, Coaxial</td>
<td>50, Coaxial</td>
<td>50, Coaxial</td>
</tr>
<tr>
<td>Input Connector</td>
<td>Type N Female</td>
<td>1-5/8&quot; EIA, Female</td>
<td>Type N Female</td>
<td>1-5/8&quot; EIA, Female</td>
</tr>
<tr>
<td>Level of Largest Side or Back Lobe</td>
<td>-10 dB below 3.2 MHz</td>
<td>-10 dB below 3.2 MHz</td>
<td>-10 dB below 4.4 MHz</td>
<td>-10 dB below 4.4 MHz</td>
</tr>
<tr>
<td>Relative to Main Lobe</td>
<td>-14 dB from 3.2 to 32 MHz</td>
<td>-14 dB from 3.2 to 32 MHz</td>
<td>-14 dB from 4.4 to 32 MHz</td>
<td>-14 dB from 4.4 to 32 MHz</td>
</tr>
</tbody>
</table>

Note: Class 2,3 or 4 Douglas Fir Pole required (not furnished)

Required Lengths are 35 ft (10.7 m) for Type Nos. 2726-1 and 2726-2; and 25 ft (7.6 m) for Type Nos. 2726-3 and 2726-4.

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**Antenna Dimensions, 2.5 to 32 MHz**
Models 2726-1 and 2726-2

**Antenna Dimensions, 3.5 to 32 MHz**
Models 2726-3 and 2726-4

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