SP4402-SF2SNF

Enclosed log periodic data system antenna, 8 dBi, 800-1000 MHz

• Compact radome-enclosed log-periodic antenna for SCADA/telemetry application.
• Light but rugged ABS radome provides protection from snow, ice and environmental hazards.
• 200MHz bandwidth. Ideally suited for PTP, PMP and receive-only applications.

The SP4402 series of antennas are a compact, radome-enclosed log-periodic antenna specifically designed for use in SCADA/telemetry applications.

The rugged ABS radome protects the antenna from snow and ice accumulation which can compromise the performance of the antennas. The compact profile makes them inconspicuous and easy to mount. They can be mounted directly to a wall or data-terminal housing, or to a mast, pipe or other structure.

Rugged but light, the SP4402 imposes a very modest wind load and can be expected to survive very severe environmental conditions.
Electrical Specifications

- **Frequency Range**: MHz | 800 to 1000
- **Bandwidth**: MHz | 200
- **Connector**: N-Female
- **Gain (nominal)**: dBi | 8 (10.1)
- **Input VSWR (max)**: 1.5:1
- **Polarization**: vertical
- **Impedance**: Ω | 50
- **Pattern**: Directional
- **Horizontal beamwidth (typ)**: degrees | 90
- **Vertical beamwidth (typ)**: degrees | 33
- **Average Power Input (max)**: W | 100
- **Lightning protection**: DC ground
- **Front-to-back ratio (typ)**: dB | 25

Mechanical Specifications

- **Width**: in (mm) | 2.88 (73)
- **Depth**: in (mm) | 8.5 (216)
- **Length/Height**: in (mm) | 22.5 (572)
- **Radiating element material**: printed circuit bd
- **Radome material**: ABS (white)
- **Weight**: lbs (kg) | 6 (2.72)
- **Mounting Hardware (Included)**: Clamp167
- **Shipping dimensions**: in (mm) | 12x16x37 (305x406x940)
- **Mounting configurations**: universal

Environmental Specifications

- **Temperature range**: °F (°C) | -40 to +140 (-40 to +60)
- **Wind Loading Area (Flat Plate Equivalent)**: ft² (m²) | 1.4 (0.13)
- **Wind Loading Area (1/2" ice)**: ft² (m²) | 1.6 (0.15)
- **Rated wind velocity (no ice)**: mph (km/h) | 100 (161)
- **Rated wind velocity (1/2" radial ice)**: mph (km/h) | 80 (129)
- **Lateral thrust (100 mph No Ice)**: lbs (N) | 56 (249.1)
- **Torsional moment (100 mph No Ice)**: ft-lbs (Nm) | 22 (29.7)

Region

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<thead>
<tr>
<th>United States</th>
<th>Europe, Middle East and Africa</th>
<th>Caribbean and Latin America</th>
<th>Canada and rest of the world</th>
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