### Technical Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range (GHz)</td>
<td>7.5 - 18.0</td>
</tr>
<tr>
<td>Gain (dBi)</td>
<td>20 Typ.</td>
</tr>
<tr>
<td>Polarization</td>
<td>Linear</td>
</tr>
<tr>
<td>3dB Beamwidth (deg)</td>
<td></td>
</tr>
<tr>
<td>E Plane</td>
<td>23 - 10</td>
</tr>
<tr>
<td>H Plane</td>
<td>26 - 11</td>
</tr>
<tr>
<td>Cross Pol. Isolation (dB)</td>
<td>30 Typ.</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.5:1 Typ.</td>
</tr>
<tr>
<td>Output</td>
<td></td>
</tr>
<tr>
<td>A Type</td>
<td>FPWRD750D24</td>
</tr>
<tr>
<td>C Type</td>
<td>SMA-Female</td>
</tr>
<tr>
<td></td>
<td>or N-Female</td>
</tr>
<tr>
<td></td>
<td>or High Power N-Female</td>
</tr>
<tr>
<td>Power Handling (W)</td>
<td></td>
</tr>
<tr>
<td>SMA-F</td>
<td>50 Max. CW</td>
</tr>
<tr>
<td>N-F</td>
<td>150 Max. CW</td>
</tr>
<tr>
<td>HP N-F</td>
<td>500 Max. CW</td>
</tr>
<tr>
<td>Material</td>
<td>Al</td>
</tr>
<tr>
<td>Size (mm)</td>
<td></td>
</tr>
<tr>
<td>A Type</td>
<td>108 x 90 x 206</td>
</tr>
<tr>
<td>C Type</td>
<td>108 x 90 x 237.7</td>
</tr>
<tr>
<td>Net Weight (Kg)</td>
<td></td>
</tr>
<tr>
<td>A Type</td>
<td>0.35 Around</td>
</tr>
<tr>
<td>C Type</td>
<td>0.50 Around</td>
</tr>
</tbody>
</table>

### Outline Drawing (Size: mm)

A Type (With FPWRD750D24 Output)
C Type (With SMA-Female Output)
For N-Female or High Power N-Female output outline drawing, please contact A-INFO.

C Type (With SMA-Female Output & Round Mounting Bracket)
For N-Female or High Power N-Female output outline drawing, please contact A-INFO.
C Type (With SMA-Female Output & L Type Mounting Bracket)
For N-Female or High Power N-Female output outline drawing, please contact A-INFO.

A Type (With Radome)
C Type (With SMA-Female Output & Radome)

For N-Female or High Power N-Female output outline drawing, please contact A-INFO.
C Type (With SMA-Female Output & L Type Mounting Bracket & Radome)

For N-Female or High Power N-Female output outline drawing, please contact A-INFO.
FPWRD750D24
(With two through mounting holes and two screws holes)
Test Results

1. Gain & Antenna Factor

![Gain vs Frequency Graph]

![Antenna Factor vs Frequency Graph]
2. Cross Polarization Isolation

![Graph showing cross polarization isolation vs frequency (GHz).]

3. VSWR

![Graph showing VSWR vs frequency (GHz).]

Data subject to change without notice. For current data sheets, please contact: Sales@ainfoinc.com
4. Pattern

- **7.5GHz**
  - H-Plane
  - E-Plane
  - 3dB Beamwidth (deg): 25.28

- **8.0GHz**
  - H-Plane
  - E-Plane
  - 3dB Beamwidth (deg): 22.31

- **8.5GHz**
  - H-Plane
  - E-Plane
  - 3dB Beamwidth (deg): 22.51

- **9.0GHz**
  - H-Plane
  - E-Plane
  - 3dB Beamwidth (deg): 20.17

- **9.5GHz**
  - H-Plane
  - E-Plane
  - 3dB Beamwidth (deg): 20.06

- **10.0GHz**
  - H-Plane
  - E-Plane
  - 3dB Beamwidth (deg): 17.79

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13.5GHz

3dB Beamwidth (deg): 16.25

14.0GHz

3dB Beamwidth (deg): 13.17

14.5GHz

3dB Beamwidth (deg): 15.06

15.0GHz

3dB Beamwidth (deg): 12.30

15.5GHz

3dB Beamwidth (deg): 14.30

16.0GHz

3dB Beamwidth (deg): 11.52
7.5 – 18.0GHz Multi Octave Horn Antenna

**16.5GHz**

- H-Plane
- E-Plane

3dB Beamwidth (deg): 12.77

**17.0GHz**

- H-Plane
- E-Plane

3dB Beamwidth (deg): 12.25

**17.5GHz**

- H-Plane
- E-Plane

3dB Beamwidth (deg): 11.82

**18.0GHz**

- H-Plane
- E-Plane

3dB Beamwidth (deg): 11.24

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