Technical Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range(GHz)</td>
<td>5.8 – 16.0</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>24 - 10</td>
</tr>
<tr>
<td>H Plane:</td>
<td>28 - 9</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>FPWRD580D28</td>
</tr>
<tr>
<td>C Type:</td>
<td>N-Female or SMA-Female</td>
</tr>
<tr>
<td>Power Handling(W CW)</td>
<td></td>
</tr>
<tr>
<td>N-F:</td>
<td>150 Max.</td>
</tr>
<tr>
<td>SMA-F:</td>
<td>50 Max.</td>
</tr>
<tr>
<td>Material</td>
<td>Al</td>
</tr>
<tr>
<td>Size(mm)</td>
<td></td>
</tr>
<tr>
<td>A Type:</td>
<td>134 x 111.9 x 243</td>
</tr>
<tr>
<td>C Type:</td>
<td>134 x 111.9 x 285.7</td>
</tr>
<tr>
<td>Net Weight(Kg)</td>
<td></td>
</tr>
<tr>
<td>A Type:</td>
<td>0.58 Around</td>
</tr>
<tr>
<td>C Type:</td>
<td>0.74 Around</td>
</tr>
</tbody>
</table>

Outline Drawing (Size: mm)

FPWRD580D28 Output (P/N: LB-58160-20-A)
N-Female Output (P/N: LB-58160-20-C-NF)
For SMA-Female output outline drawing, please contact A-INFO.

N-Female Output with Round Mounting Bracket (Option, P/N: LB-51-25-MB2)
For SMA-Female output outline drawing, please contact A-INFO.
N-Female Output with L Type Mounting Bracket (Option, P/N: LB-51-25-L2)

For SMA-Female output outline drawing, please contact A-INFO.

FPWRD580D28 Output with Radome (Option, P/N: LB-58160-20-ASPO, Application Outdoor)
N-Female Output with **Radome** (Option, P/N: LB-58160-20-C-NFSPO, Application Outdoor)

For SMA-Female output outline drawing, please contact A-INFO.

N-Female Output with **Round Mounting Bracket & Radome** (Option, P/N: LB-51-25-MB2 & LB-58160-20-C-NFSPO, Application Outdoor)

For SMA-Female output outline drawing, please contact A-INFO.
N-Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-51-25-L2 & LB-58160-20-C-NFSPO, Application Outdoor)

For SMA-Female output outline drawing, please contact A-INFO.
Flange Drawing (Size: mm)

FPWRD580D28
(With two through mounting holes and two screws holes)
Test Results

1. Gain & Antenna Factor

![Graph showing gain and antenna factor across frequency range 5.8 GHz to 16.0 GHz]

Data subject to change without notice. For current data sheets, please contact: Sales@ainfoinc.com
2. Cross Polarization Isolation

3. VSWR
4. Pattern

Frequency: 5.8GHz

Frequency: 6.0GHz

Frequency: 6.5GHz

Frequency: 7.0GHz

Frequency: 7.5GHz

Frequency: 8.0GHz

3dB Beamwidth (deg): 27.53
3dB Beamwidth (deg): 23.78

3dB Beamwidth (deg): 24.77
3dB Beamwidth (deg): 22.10

3dB Beamwidth (deg): 23.81
3dB Beamwidth (deg): 20.24

3dB Beamwidth (deg): 21.96
3dB Beamwidth (deg): 19.65

3dB Beamwidth (deg): 21.03
3dB Beamwidth (deg): 18.40

3dB Beamwidth (deg): 19.59
3dB Beamwidth (deg): 17.10

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

Website: www.ainfoinc.com
5.8 – 16.0GHz Multi Octave Horn Antenna

Frequency: 8.5GHz

Frequency: 9.0GHz

Frequency: 9.5GHz

Frequency: 10.0GHz

Frequency: 10.5GHz

Frequency: 11.0GHz


3dB Beamwidth (deg): 17.64 3dB Beamwidth (deg): 15.84

3dB Beamwidth (deg): 17.69 3dB Beamwidth (deg): 15.90

3dB Beamwidth (deg): 17.48 3dB Beamwidth (deg): 15.15

3dB Beamwidth (deg): 17.30 3dB Beamwidth (deg): 14.09


Data subject to change without notice. For current data sheets, please contact: Sales@ainfoinc.com
Data subject to change without notice. For current data sheets, please contact: Sales@ainfoinc.com
Frequency: 14.5GHz

3dB Beamwidth (deg): 11.16

Frequency: 15.0GHz

3dB Beamwidth (deg): 10.22

Frequency: 15.5GHz

3dB Beamwidth (deg): 10.53

Frequency: 16.0GHz

3dB Beamwidth (deg): 9.23

3dB Beamwidth (deg): 10.30

3dB Beamwidth (deg): 9.02