## Technical Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range (GHz)</td>
<td>6.0 – 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>E Plane: 21 - 8</td>
</tr>
<tr>
<td></td>
<td>H Plane: 24 - 9</td>
</tr>
<tr>
<td>Cross Pol. Isolation (dB)</td>
<td>30 Typ.</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.50:1 Typ.</td>
</tr>
<tr>
<td>Output</td>
<td>A Type: FPWRD650D28</td>
</tr>
<tr>
<td></td>
<td>C Type: N-Female</td>
</tr>
<tr>
<td></td>
<td>or SMA-Female</td>
</tr>
<tr>
<td></td>
<td>or High Power N-Female</td>
</tr>
<tr>
<td>Power Handling (W CW)</td>
<td>N-F: 150 Max.</td>
</tr>
<tr>
<td></td>
<td>SMA-F: 50 Max.</td>
</tr>
<tr>
<td></td>
<td>HP N-F: 500 Max.</td>
</tr>
<tr>
<td>Material</td>
<td>Al</td>
</tr>
<tr>
<td>Size (mm)</td>
<td>A Type: 124 x 104 x 226</td>
</tr>
<tr>
<td></td>
<td>C Type: 124 x 104 x 262</td>
</tr>
<tr>
<td>Net Weight (Kg)</td>
<td>A Type: 0.40 Around</td>
</tr>
<tr>
<td></td>
<td>C Type: 0.56 Around</td>
</tr>
</tbody>
</table>

### Outline Drawing (Size: mm)

FPWRD650D28 Output (P/N: LB-60180-20-A)
N-Female Output (P/N: LB-60180-20-C-NF)
For SMA-Female or High Power N-Female output outline drawing, please contact A-INFO.

N-Female Output with Round Mounting Bracket (Option, P/N: LB-65180-20-C-MB)
For SMA-Female or High Power N-Female output outline drawing, please contact A-INFO.
N-Female Output with L Type Mounting Bracket (Option, P/N: LB-65180-20-C-L)
For SMA-Female or High Power N-Female output outline drawing, please contact A-INFOR.

FPWRD650D28 Output with Radome (Option, P/N: LB-60180-20-ASPO, Application Outdoor)
N-Female Output with **Radome** (Option, P/N: LB-60180-20-C-NFSPO, Application Outdoor)
For SMA-Female or High Power N-Female output outline drawing, please contact A-INFO.

N-Female Output with **Round Mounting Bracket & Radome** (Option, P/N: LB-65180-20-C-MB & LB-60180-20-C-NFSPO, Application Outdoor)
For SMA-Female or High Power N-Female output outline drawing, please contact A-INFO.
N-Female Output with **L** Type Mounting Bracket & Radome (Option, P/N: LB-65180-20-C-L & LB-60180-20-C-NFSPO, Application Outdoor)

For SMA-Female or High Power N-Female output outline drawing, please contact A-INFO.
FPWRD650D28
(With two through mounting holes and two screws holes)
Test Results

1. Gain & Antenna Factor

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**Gain (dBi)**

![Graph of Gain vs Frequency](image)

**Antenna Factor (dB/m)**

![Graph of Antenna Factor vs Frequency](image)
2. Cross Polarization Isolation

![Cross Polarization Isolation Graph]

3. VSWR

![VSWR Graph]

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

Frequency: 6.0GHz

3dB Beamwidth (deg): 26.07

Frequency: 6.5GHz

3dB Beamwidth (deg): 23.76

Frequency: 7.0GHz

3dB Beamwidth (deg): 22.14

Frequency: 7.5GHz

3dB Beamwidth (deg): 20.42

Frequency: 8.0GHz

3dB Beamwidth (deg): 19.68

Frequency: 8.5GHz

3dB Beamwidth (deg): 18.10
Frequency: 9.0GHz

- H-Plane
- E-Plane

3dB Beamwidth (deg): 16.98

Frequency: 9.5GHz

- H-Plane
- E-Plane

3dB Beamwidth (deg): 16.18

Frequency: 10.0GHz

- H-Plane
- E-Plane

3dB Beamwidth (deg): 16.37

Frequency: 10.5GHz

- H-Plane
- E-Plane

3dB Beamwidth (deg): 16.01

Frequency: 11.0GHz

- H-Plane
- E-Plane

3dB Beamwidth (deg): 15.68

Frequency: 11.5GHz

- H-Plane
- E-Plane

3dB Beamwidth (deg): 15.18
Frequency: 15.0GHz

Frequency: 15.5GHz

Frequency: 16.0GHz

Frequency: 16.5GHz

Frequency: 17.0GHz

Frequency: 17.5GHz

3dB Beamwidth (deg): 11.16
3dB Beamwidth (deg): 10.26
3dB Beamwidth (deg): 9.89
3dB Beamwidth (deg): 9.36
3dB Beamwidth (deg): 9.89
3dB Beamwidth (deg): 9.85
3dB Beamwidth (deg): 9.74
3dB Beamwidth (deg): 8.71
3dB Beamwidth (deg): 9.28
3dB Beamwidth (deg): 9.85
3dB Beamwidth (deg): 9.74
3dB Beamwidth (deg): 8.71
3dB Beamwidth (deg): 9.52
3dB Beamwidth (deg): 9.36
3dB Beamwidth (deg): 8.42
3dB Beamwidth (deg): 8.71

For current data sheets, please contact: Sales@ainfoinc.com
Frequency: 18.0GHz

3dB Beamwidth (deg): 9.65
3dB Beamwidth (deg): 8.21