Technical Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range (GHz)</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>10 Typ.</td>
</tr>
<tr>
<td>Polarization</td>
<td>Dual Pol.</td>
</tr>
<tr>
<td>3dB Beamwidth (deg)</td>
<td>80-10</td>
</tr>
<tr>
<td>Cross Pol. Isolation (dB)</td>
<td>18 Min.</td>
</tr>
<tr>
<td>Port to Port Isolation (dB)</td>
<td>20 Min.</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.5 : 1 Typ.</td>
</tr>
<tr>
<td></td>
<td>2.5 : 1 Max.</td>
</tr>
<tr>
<td>Output</td>
<td>SMA-Female / N-Female</td>
</tr>
<tr>
<td>Power Handling (W)</td>
<td></td>
</tr>
<tr>
<td>SMA-Female</td>
<td>50 Max. CW</td>
</tr>
<tr>
<td>N-Female</td>
<td>50 Max. CW</td>
</tr>
<tr>
<td>Material</td>
<td>Al</td>
</tr>
<tr>
<td>Size (mm)</td>
<td>204 x 204 x 211</td>
</tr>
<tr>
<td>Net Weight (Kg)</td>
<td>1.70 Around</td>
</tr>
</tbody>
</table>

Outline Drawing (Size: mm)

SMA Female Output

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

![Outline Drawing](image-url)
SMA Female Output with L type mounting bracket
For N type Female output outline drawing, please contact A-INFO.

SMA Female Output with Radome
For N type Female output outline drawing, please contact A-INFO.
SMA Female Output with L type mounting bracket & Radome

For N type Female output outline drawing, please contact A-INFO.
Test Results

1. Gain and Antenna Factor

**Gain at 1m**

![Graph showing gain at 1m for V and H polarization.]

**Gain at 3m**

![Graph showing gain at 3m for V and H polarization.]

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AF at 1m

AF at 3m

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2. VSWR

Port-V

Port-H
3. Cross Polarization Isolation

Port-V

![Graph showing cross polarization isolation for Port-V.]

Port-H

![Graph showing cross polarization isolation for Port-H.]

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4. Port to Port Isolation

<table>
<thead>
<tr>
<th>CH</th>
<th>0.1</th>
<th>1.0</th>
<th>10.0</th>
<th>10.4</th>
<th>10.42</th>
<th>10.425</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marker</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

Frequency: 1.0GHz

5. Pattern

**Frequency: 1.0GHz**

- H-Plane
- E-Plane

3dB Beamwidth (deg): 71.54

**Frequency: 1.5GHz**

- H-Plane
- E-Plane

3dB Beamwidth (deg): 55.00

3dB Beamwidth (deg): 50.37
Frequency: 2.0GHz  
Frequency: 2.5GHz  
Frequency: 3.0GHz  
Frequency: 3.5GHz  
Frequency: 4.0GHz  
Frequency: 4.5GHz

<table>
<thead>
<tr>
<th>Frequency</th>
<th>H-Plane</th>
<th>E-Plane</th>
<th>3dB Beamwidth (deg)</th>
<th>H-Plane</th>
<th>E-Plane</th>
<th>3dB Beamwidth (deg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0GHz</td>
<td>50.46</td>
<td>34.13</td>
<td></td>
<td>44.75</td>
<td>68.03</td>
<td></td>
</tr>
<tr>
<td>2.5GHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0GHz</td>
<td>39.25</td>
<td>59.64</td>
<td></td>
<td>33.20</td>
<td>58.50</td>
<td></td>
</tr>
<tr>
<td>3.5GHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.0GHz</td>
<td>26.23</td>
<td>48.61</td>
<td></td>
<td>22.85</td>
<td>48.39</td>
<td></td>
</tr>
<tr>
<td>4.5GHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Frequency: 5.0GHz

H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 23.01 3dB Beamwidth (deg): 57.57

Frequency: 5.5GHz

H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 23.69 3dB Beamwidth (deg): 57.11

Frequency: 6.0GHz

H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 26.50 3dB Beamwidth (deg): 50.08

Frequency: 6.5GHz

H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 32.29 3dB Beamwidth (deg): 54.82

Frequency: 7.0GHz

H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 42.64 3dB Beamwidth (deg): 56.94

Frequency: 7.5GHz

H-Plane ——— E-Plane ———
3dB Beamwidth (deg): 39.50 3dB Beamwidth (deg): 56.94

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Website: www.ainfoinc.com Email: sales@ainfoinc.com

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Frequency: 8.0GHz

- H-Plane: 34.14°
- E-Plane: 42.73°

Frequency: 8.5GHz

- H-Plane: 30.86°
- E-Plane: 19.28°

Frequency: 9.0GHz

- H-Plane: 28.22°
- E-Plane: 23.87°

Frequency: 9.5GHz

- H-Plane: 27.98°
- E-Plane: 25.96°

Frequency: 10.0GHz

- H-Plane: 24.94°
- E-Plane: 26.09°

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