# 2J680 (DATASHEET)

<table>
<thead>
<tr>
<th>Type</th>
<th>GSM/4G/LTE IFA antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequencies</td>
<td>AMPS (824-894 MHz)</td>
</tr>
<tr>
<td></td>
<td>GSM (900 MHz)</td>
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<tr>
<td></td>
<td>DCS (1800 MHz)</td>
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<tr>
<td></td>
<td>PCS (1900 MHz)</td>
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<td></td>
<td>3G (2100 MHz)</td>
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<tr>
<td></td>
<td>WiFi (2400 MHz)</td>
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<tr>
<td></td>
<td>4G/LTE (791-862/2500-2690 MHz)</td>
</tr>
<tr>
<td>Mounting</td>
<td>Ceiling</td>
</tr>
<tr>
<td></td>
<td>Panel mount</td>
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<tr>
<td>Revision</td>
<td>00</td>
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</table>

**Application**
- M2M
- Mobile
- Internal antenna

**Features**
- RoHS Compliant
- Connection on any materials
- Groundplane independent
1. SPECIFICATIONS

1.1. RF Specifications

<table>
<thead>
<tr>
<th>Frequency</th>
<th>AMPS(824-894 MHz), GSM(900 MHz), DCS(1800 MHz), PCS(1900 MHz), 3G(2100 MHz), WiFi(2400 MHz), 4G/LTE (791-862/2500-2690 MHz)</th>
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<tbody>
<tr>
<td>Gain</td>
<td>2 dBi Max</td>
</tr>
<tr>
<td>VSWR</td>
<td>&lt;2.5:1</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ohms</td>
</tr>
<tr>
<td>Polarization</td>
<td>Linear</td>
</tr>
<tr>
<td>Power handling</td>
<td>50 W</td>
</tr>
</tbody>
</table>

1.2. Connection Specifications

- Cable: RG174
- Cable length: min. 30 cm
- Connector: SMA male

For different cable or connector type please ask our sales team.

1.3. Mechanical Specifications and Dimensions

- Material: Lid: ABS / Base: Metal
- Dimensions: 38 mm x 117 mm x 49.5 mm (H x L x W)
- Weight: 110 g ‘counted with default connection’
- Color: Black or Grey (for different colours please ask our sales team)
2. MEASUREMENT

2.1. Set for Measurement

- **Connection:** Antenna connected straight to DAMS platform
- **Temperature:** 25 °C
- **Frequencies range:** 700 – 2700 MHz
- **Output power:** 10 dBm
- **Format type:** LOG Mag
- **Cable length:** 30cm

DAMS positioner with AUT and reference antenna are placed in anechoic chamber.
2.2. Electrical Characteristics (measured with 30cm cable length)

Log Mag

VSWR
2.3. Electrical Characteristics (measured with 2.5m cable length)

Log Mag

VSWR
2.4. Radiation Patterns

2.4.1. 3D Radiation Pattern

Freq = 0.9GHz  Az = 90  El = 90

2.4.2. 2D Radiation Patterns
3. PLACEMENT RECOMMENDATIONS

- MULTI mount flat surfaces so you can mount on panels, walls, glass, ceilings, …
- Via 2 screws or by patch
- Suggested distance from other antennas min. 40 cm

4. PACKING

4.1. Description of Bag
   Polly bag: 100mm x 200mm

4.2. Description of Packing Bag

Antenna
Surface cleaner
Product identification label
Polly bag
5. IMAGES