M1621HCT-P-SMA
IRIDIUM CERTIFIED PASSIVE ANTENNA
Ordering Part #: 100-00003-02

Description
The M1621HCT-P-SMA is a high performance antenna designed for the Iridium network, and built on proprietary Maxtena Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1621HCT-P-SMA is a screw-on design, featuring an integrated SMA connector and is rated IP-67 when mounted for added protection. This product is designed for applications requiring high quality reception of the Iridium network.

Mechanical Specifications
Dimensions are in mm

Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Design Specifications</th>
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</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>1616-1626 MHz</td>
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<tr>
<td>Polarization</td>
<td>RHCP</td>
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<tr>
<td>Antenna element peak gain</td>
<td>2.8 dBi (typical)</td>
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<tr>
<td>Efficiency</td>
<td>60%</td>
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<tr>
<td>Bandwidth (-1dB)</td>
<td>20 MHz</td>
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<tr>
<td>Axial Ratio</td>
<td>0.2 dB (typical) / 0.5 dB (max)</td>
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<tr>
<td>VSWR</td>
<td>1.5 (max)</td>
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<tr>
<td>Impedance</td>
<td>50 Ohm</td>
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<tr>
<td>Operating temp.</td>
<td>from -40°C to 85°C</td>
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<tr>
<td>RF connector</td>
<td>SMA</td>
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</table>

Features
- Optimized for Iridium network
- Very low axial ratio
- IP-67 mounted
- Ultra light weight - 11 grams
- Ground plane independent

Applications
- Vehicle and fleet tracking
- Military & security
- Asset tracking
- Iridium (SBD) Short Burst Data
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- Handheld devices
- Law enforcement

Realized gain plot
Measured at 1621 MHz

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