### Electrical Specifications

<table>
<thead>
<tr>
<th>Frequency Band, MHz</th>
<th>LB (790–890 MHz)</th>
<th>LB (890–960 MHz)</th>
<th>HB (1695–1920 MHz)</th>
<th>HB (1920–2180 MHz)</th>
<th>HB (2300–2690 MHz)</th>
<th>HB-Dual-Beam1 (1695–1920 MHz)</th>
<th>HB-Dual-Beam1 (1920–2180 MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gain, dBi</strong></td>
<td>15.8</td>
<td>16.1</td>
<td>16.2</td>
<td>16.9</td>
<td>17.3</td>
<td>16.5</td>
<td>18.1</td>
</tr>
<tr>
<td><strong>Beam Centers, Horizontal, degrees</strong></td>
<td>±32</td>
<td>±30</td>
<td>±30</td>
<td>±30</td>
<td>±30</td>
<td>±30</td>
<td>±30</td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal, degrees</strong></td>
<td>69</td>
<td>68</td>
<td>66</td>
<td>67</td>
<td>65</td>
<td>36</td>
<td>31</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical, degrees</strong></td>
<td>11.1</td>
<td>10.2</td>
<td>10.1</td>
<td>9.0</td>
<td>7.3</td>
<td>10.3</td>
<td>9.1</td>
</tr>
<tr>
<td><strong>Beam Tilt, degrees</strong></td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
<td>0–10</td>
</tr>
<tr>
<td><strong>USLS, beampeak to 20° above USLS, beampeak to 20° above, degrees</strong></td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
</tr>
<tr>
<td><strong>Isolation, Inter-band, dB</strong></td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td><strong>Isolation, Beam to Beam, dB</strong></td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>**VSWR</td>
<td>Return Loss, dB**</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>PIM, 3rd Order, 2 x 20 W, dBc</strong></td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
<td>-150</td>
</tr>
<tr>
<td><strong>Input Power per Port, maximum, watts</strong></td>
<td>300</td>
<td>300</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td><strong>Polarization</strong></td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
<td>50 ohm</td>
</tr>
</tbody>
</table>

### Electrical Specifications, BASTA*

<table>
<thead>
<tr>
<th>Frequency Band, MHz</th>
<th>790–890 MHz</th>
<th>890–960 MHz</th>
<th>1695–1920 MHz</th>
<th>1920–2180 MHz</th>
<th>2300–2690 MHz</th>
<th>1695–1920 MHz</th>
<th>1920–2180 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gain by Beam Tilt, average, dBi</strong></td>
<td>15.7</td>
<td>15.9</td>
<td>15.9</td>
<td>16.5</td>
<td>16.9</td>
<td>15.8</td>
<td>17.5</td>
</tr>
<tr>
<td><strong>Gain by Beam Tilt Tolerance, dB</strong></td>
<td>±0.2</td>
<td>±0.1</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.7</td>
<td>±1.1</td>
<td>±0.9</td>
</tr>
<tr>
<td><strong>Gain by Beam Tilt, average, dBi</strong></td>
<td>0°</td>
<td>15.7</td>
<td>0°</td>
<td>16.0</td>
<td>0°</td>
<td>16.0</td>
<td>0°</td>
</tr>
<tr>
<td><strong>Beamwidth, Horizontal Tolerance, degrees</strong></td>
<td>±0.7</td>
<td>±0.5</td>
<td>±2.8</td>
<td>±4.3</td>
<td>±7.6</td>
<td>±3.4</td>
<td>±2.1</td>
</tr>
<tr>
<td><strong>Beamwidth, Vertical Tolerance, degrees</strong></td>
<td>±0.5</td>
<td>±0.4</td>
<td>±0.7</td>
<td>±0.6</td>
<td>±0.6</td>
<td>±0.6</td>
<td>±0.7</td>
</tr>
<tr>
<td><strong>USLS, beampeak to 20° above beampeak, dB</strong></td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td><strong>Front-to-Back Total Power at 180° ± 30°, dB</strong></td>
<td>26</td>
<td>26</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>24</td>
<td>28</td>
</tr>
<tr>
<td><strong>CPR at Boresight, dB</strong></td>
<td>16</td>
<td>16</td>
<td>17</td>
<td>20</td>
<td>20</td>
<td>13</td>
<td>15</td>
</tr>
<tr>
<td><strong>CPR at Sector, dB</strong></td>
<td>12</td>
<td>14</td>
<td>12</td>
<td>13</td>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Most current information. Revised: June 11, 2019

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* CommScope supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

**Array Layout**

<table>
<thead>
<tr>
<th>Array</th>
<th>Freq (MHz)</th>
<th>Conns</th>
<th>RET (SRET)</th>
<th>AISG RET UID</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>790-960</td>
<td>1-2</td>
<td>1</td>
<td>Rxxxxxxxxxxxxxx1</td>
</tr>
<tr>
<td>B1</td>
<td>1695-2180</td>
<td>3-4</td>
<td>2</td>
<td>Rxxxxxxxxxxxxxx2</td>
</tr>
<tr>
<td>B2</td>
<td>1695-2180</td>
<td>5-6</td>
<td>3</td>
<td>Rxxxxxxxxxxxxxx3</td>
</tr>
<tr>
<td>Y1</td>
<td>1695-2690</td>
<td>7-8</td>
<td>4</td>
<td>Rxxxxxxxxxxxxxx4</td>
</tr>
<tr>
<td>Y2</td>
<td>1695-2690</td>
<td>9-10</td>
<td>5</td>
<td>Rxxxxxxxxxxxxxx5</td>
</tr>
</tbody>
</table>

Sizes of colored boxes are not true depictions of array sizes.

**General Specifications**

- **Operating Frequency Band**: 1695 – 2180 MHz | 1695 – 2690 MHz | 790 – 960 MHz
- **Antenna Type**: Sector
- **Band**: Multiband
- **Performance Note**: Outdoor usage

**Mechanical Specifications**

- **RF Connector Quantity, total**: 10
- **RF Connector Quantity, low band**: 2
- **RF Connector Quantity, high band**: 8
- **RF Connector Interface**: 7-16 DIN Female
- **Color**: Gray
- **Grounding Type**: RF connector inner conductor and body grounded to reflector and mounting bracket
- **Radiator Material**: Brass | Low loss circuit board
- **Radome Material**: Fiberglass, UV resistant
- **Reflector Material**: Aluminum
- **RF Connector Location**: Bottom
- **Wind Loading, frontal**: 348.0 N @ 150 km/h
  78.2 lbf @ 150 km/h
Wind Loading, lateral
294.0 N @ 150 km/h
66.1 lbf @ 150 km/h

Wind Loading, maximum
737.0 N @ 150 km/h
165.7 lbf @ 150 km/h

Wind Speed, maximum
241 km/h | 150 mph

Dimensions
Length
2065.0 mm | 81.3 in
Width
350.0 mm | 13.8 in
Depth
208.0 mm | 8.2 in
Net Weight, without mounting kit
35.5 kg | 78.3 lb

Remote Electrical Tilt (RET) Information
Input Voltage
10–30 Vdc
Internal RET
High band (4) | Low band (1)
Power Consumption, idle state, maximum
2 W
Power Consumption, normal conditions, maximum
13 W
Protocol
3GPP/AISG 2.0 (Single RET)
RET Interface
8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity
1 female | 1 male

Packed Dimensions
Length
2250.0 mm | 88.6 in
Width
436.0 mm | 17.2 in
Depth
320.0 mm | 12.6 in
Shipping Weight
53.0 kg | 116.8 lb

Regulatory Compliance/Certifications
Agency
RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014
CE
Classification
Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives

Included Products
T-029-GL-E — Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. Includes 2 clamp sets.
* Footnotes

**Performance Note**  Severe environmental conditions may degrade optimum performance