### Electrical Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain, dBi</td>
<td>13.4</td>
<td>13.8</td>
<td>13.9</td>
<td>14.4</td>
<td>14.5</td>
</tr>
<tr>
<td>Beamwidth, Vertical, degrees</td>
<td>18.5</td>
<td>17.2</td>
<td>16.4</td>
<td>14.4</td>
<td>13.6</td>
</tr>
<tr>
<td>Beamwidth, Horizontal, degrees</td>
<td>70</td>
<td>68</td>
<td>69</td>
<td>63</td>
<td>61</td>
</tr>
<tr>
<td>Beam Tilt, degrees</td>
<td>0–20</td>
<td>0–20</td>
<td>0–20</td>
<td>0–20</td>
<td>0–20</td>
</tr>
<tr>
<td>USLS (First Lobe), dB</td>
<td>15</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>14</td>
</tr>
<tr>
<td>Front-to-Back Ratio at 180°, dB</td>
<td>27</td>
<td>27</td>
<td>28</td>
<td>28</td>
<td>25</td>
</tr>
<tr>
<td>Isolation, Cross Polarization, dB</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>VSWR</td>
<td>Return Loss, dB</td>
<td>1.5</td>
<td>14.0</td>
<td>1.5</td>
<td>14.0</td>
</tr>
<tr>
<td>Input Power per Port, maximum, watts</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>Polarization</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
<td>±45°</td>
</tr>
<tr>
<td>Impedance</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></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain by all Beam Tilts, average, dBi</td>
<td>13.1</td>
<td>13.5</td>
<td>13.5</td>
<td>14.1</td>
<td>14.1</td>
</tr>
<tr>
<td>Gain by all Beam Tilts Tolerance, dB</td>
<td>±0.4</td>
<td>±0.6</td>
<td>±0.6</td>
<td>±0.6</td>
<td>±0.6</td>
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<tr>
<td>Gain by Beam Tilt, average, dBi</td>
<td>13.1</td>
<td>13.5</td>
<td>13.5</td>
<td>14.1</td>
<td>14.1</td>
</tr>
<tr>
<td>Beamwidth, Horizontal Tolerance, degrees</td>
<td>±3.2</td>
<td>±2.7</td>
<td>±3.7</td>
<td>±4</td>
<td>±4.9</td>
</tr>
<tr>
<td>Beamwidth, Vertical Tolerance, degrees</td>
<td>±1.4</td>
<td>±1.5</td>
<td>±1.2</td>
<td>±1</td>
<td>±1</td>
</tr>
<tr>
<td>USLS, beampeak to 20° above beampeak, dB</td>
<td>15</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>14</td>
</tr>
<tr>
<td>Front-to-Back Total Power at 180° ± 30°, dB</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>25</td>
<td>23</td>
</tr>
<tr>
<td>CPR at Boresight, dB</td>
<td>19</td>
<td>20</td>
<td>19</td>
<td>16</td>
<td>15</td>
</tr>
<tr>
<td>CPR at Sector, dB</td>
<td>16</td>
<td>15</td>
<td>14</td>
<td>5</td>
<td>7</td>
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</tbody>
</table>

* 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](https://www.commscope.com).
General Specifications

**Operating Frequency Band**
1695 – 2690 MHz

**Antenna Type**
Small Cell

**Band**
Single band

**Performance Note**
Outdoor usage

Mechanical Specifications

**RF Connector Quantity, total**
2

**RF Connector Quantity, high band**
2

**RF Connector Interface**
4.3-10 Female

**Color**
Light gray

**Grounding Type**
RF connector inner conductor and body grounded to reflector and mounting bracket

**Radiator Material**
Low loss circuit board

**Radome Material**
PVC, UV resistant

**Reflector Material**
Aluminum

**RF Connector Location**
Bottom

**Wind Loading, frontal**
118.0 N @ 150 km/h | 26.8 lbf @ 150 km/h

**Wind Loading, lateral**
10.8 lbf @ 150 km/h | 48.0 N @ 150 km/h

**Wind Speed, maximum**
241 km/h | 150 mph

Dimensions

**Length**
600.0 mm | 23.6 in

**Width**
170.0 mm | 6.7 in

**Depth**
105.0 mm | 4.1 in

**Net Weight, without mounting kit**
3.8 kg | 8.4 lb

Remote Electrical Tilt (RET) Information

**Input Voltage**
10–30 Vdc

**Internal RET**
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
**V65S-C3-1XR**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>726.0 mm</td>
</tr>
<tr>
<td>Width</td>
<td>302.0 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>212.0 mm</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>8.9 kg</td>
</tr>
</tbody>
</table>

**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**

- **DB390** — Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts.
- **DB5098** — Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

**Footnotes**

**Performance Note**
Severe environmental conditions may degrade optimum performance
Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel antennas. Includes two pipe mounts.

General Specifications

<table>
<thead>
<tr>
<th>Application</th>
<th>Outdoor</th>
</tr>
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<tbody>
<tr>
<td>Includes</td>
<td>Brackets</td>
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<tr>
<td>Package Quantity</td>
<td>1</td>
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Mechanical Specifications

<table>
<thead>
<tr>
<th>Color</th>
<th>Silver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Type</td>
<td>Galvanized steel</td>
</tr>
</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>Compatible Diameter, maximum</th>
<th>114.3 mm</th>
<th>4.5 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compatible Diameter, minimum</td>
<td>61.0 mm</td>
<td>2.4 in</td>
</tr>
<tr>
<td>Net Weight</td>
<td>2.0 kg</td>
<td>4.4 lb</td>
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</tbody>
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Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
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</tr>
<tr>
<td>China RoHS SJ/T 11364-2014</td>
<td>Above Maximum Concentration Value (MCV)</td>
</tr>
</tbody>
</table>
Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

General Specifications

**Application**
Outdoor

**Includes**
Brackets | Hardware

**Package Quantity**
1

Mechanical Specifications

**Color**
Silver

**Material Type**
Galvanized steel

Dimensions

**Compatible Diameter, maximum**
114.3 mm | 4.5 in

**Compatible Diameter, minimum**
61.0 mm | 2.4 in

**Net Weight**
0.7 kg | 1.4 lb

Regulatory Compliance/Certifications

**Agency**
RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014

**Classification**
Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)