

## WB3X080X12F<sub>x</sub>10

SINGLE BAND | 3-SECTOR, CLOVER-SHAPE | CANISTER ANTENNA | X-POL | FIXED TILT | 1219 MM (48.0 IN)

### Features

- 3-Sector, Clover-Shape configuration with 6 connectors
- Ideal for Small Cell / DAS applications
- Available with 7/16-DIN connectors
- Four unique mounting options
- Available in gray and brown

### Connector Description

The antenna has 6 connectors located at the bottom.

High Bands ■ Y1 ■ Y2 ■ Y3 1695-2180 MHz (6x) 7/16-DIN Female

| Electrical Characteristics                             | High Bands <span style="color: yellow;">■</span> Y1 <span style="color: yellow;">■</span> Y2 <span style="color: yellow;">■</span> Y3 |               |               |
|--|---|---------------|---------------|
| Frequency Bands  | 1695-2180 MHz   |               |               |
|  | 1695-1880 MHz   | 1850-1990 MHz | 1900-2180 MHz |
| Polarization   | ±45°  |               |               |
| Horizontal Beamwidth                                   | 80°   | 79°           | 80°           |
| Vertical Beamwidth                                     | 7.6°  | 7.1°          | 6.5°          |
| Gain   | 15.9 dBi  | 15.8 dBi      | 16.0 dBi      |
| Electrical Downtilt (°)                                | (x) 0, 2, 6   |               |               |
| Impedance  | 50Ω   |               |               |
| VSWR   | < 1.4:1   |               |               |
| Upper Sidelobe Suppression                             | > 16 dB   |               |               |
| Front-to-Back Ratio                                    | > 18 dB   |               |               |
| Isolation Between Ports                                | 24 dB   |               |               |
| IM3 (2x20W carrier)                                    | < -153 dBc  |               |               |
| Input Power  | (6x) 300 W  |               |               |
| Diplexed   | No  |               |               |
| Number of Sectors, Sector Spacing and/or Pattern Shape | 3 Sectors, 120° Spacing, Clover-Shape   |               |               |
| Operating Temperature                                  | -40° to +60° C (-40° to +140° F)  |               |               |
| Lightning Protection                                   | Direct Ground   |               |               |

### Mechanical Characteristics

|  |                     |                     |
|--|---------------------|---------------------|
| Antenna Dimensions (Height x Diameter) | 1219 x 191 mm       | 48.0 x 7.5 in       |
| Weight without Mounting Bracket Kit    | 8.6 kg              | 19 lbs              |
| Antenna Volume                         | 0.03 m <sup>3</sup> | 1.2 ft <sup>3</sup> |
| Survival Wind Speed                    | 200 km/hr           | 125 mph             |
| Wind Area                              | 0.23 m <sup>2</sup> | 2.5 ft <sup>2</sup> |
| Wind Load (160 km/hr or 100 mph)       | 125 N               | 28 lbf              |

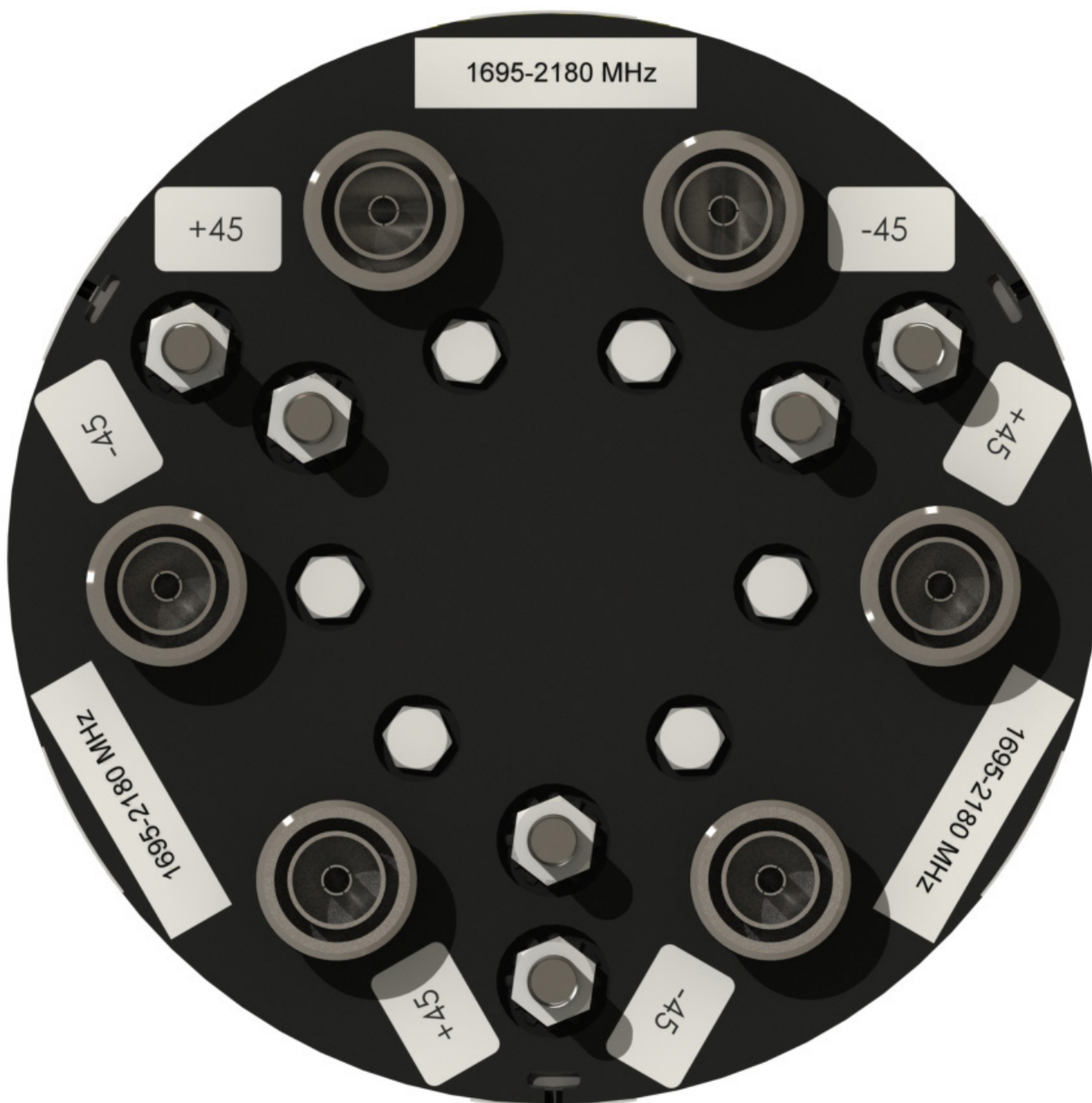


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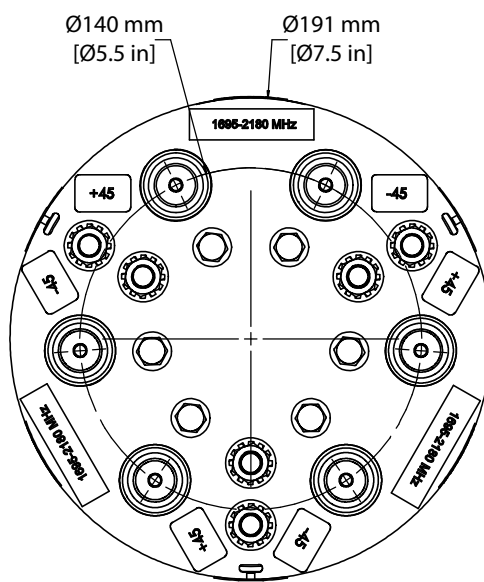
### Bottom View - Labeling



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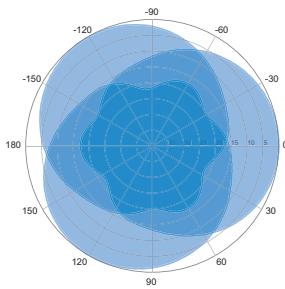
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### Bottom View - Connector Diagram

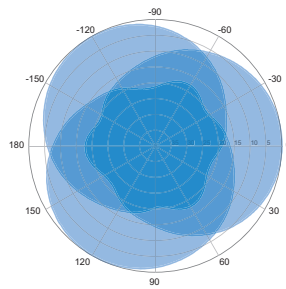


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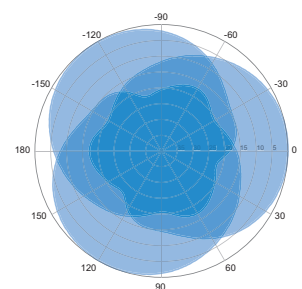
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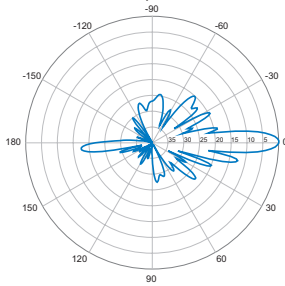
Horizontal | 1800 MHz



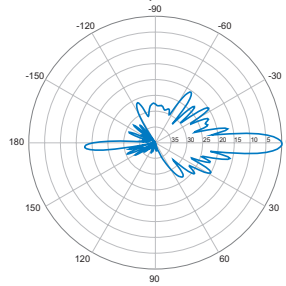
Horizontal | 1900 MHz



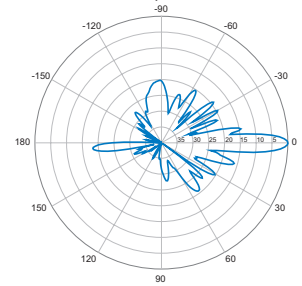
Horizontal | 2100 MHz



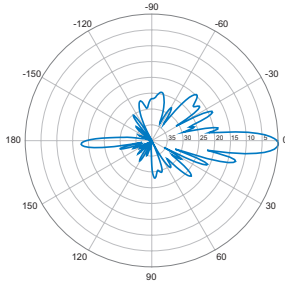
Vertical | 0° | 1800 MHz



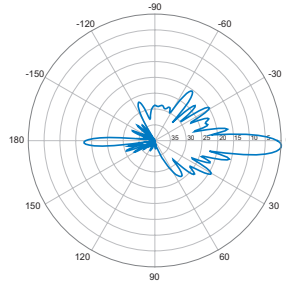
Vertical | 0° | 1900 MHz



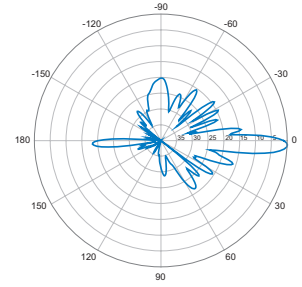
Vertical | 0° | 2100 MHz



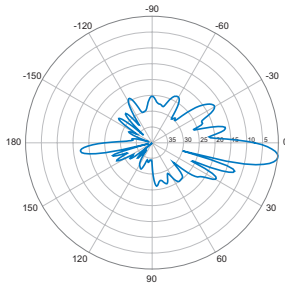
Vertical | 2° | 1800 MHz



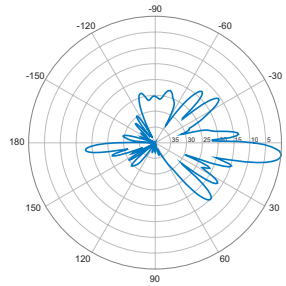
Vertical | 2° | 1900 MHz



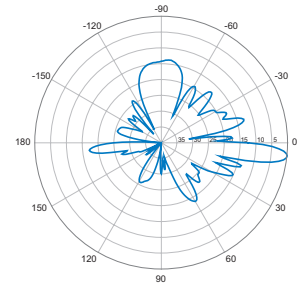
Vertical | 2° | 2100 MHz



Vertical | 6° | 1800 MHz



Vertical | 6° | 1900 MHz



Vertical | 6° | 2100 MHz

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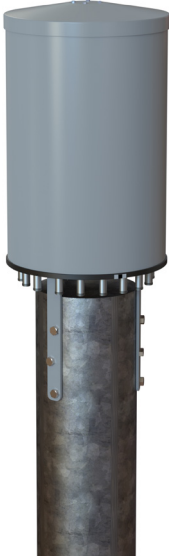
Ordering Options

When ordering, select the Paint Color and Degree of Electrical Downtilt (x).

| Paint Color   | Electrical Downtilt Degree (x) | Model Number                      |
|---------------|--------------------------------|-----------------------------------|
| Painted Gray  | 0°                             | WB3X080X12F <b>0</b> 10           |
|               | 2°                             | WB3X080X12F <b>2</b> 10           |
|               | 6°                             | WB3X080X12F <b>6</b> 10           |
| Painted Brown | 0°                             | WB3X080X12F <b>0</b> 10 <b>BR</b> |
|               | 2°                             | WB3X080X12F <b>2</b> 10 <b>BR</b> |
|               | 6°                             | WB3X080X12F <b>6</b> 10 <b>BR</b> |

Mounting Kits

This antenna can be mounted using any of the following mounting kits. Mounting kits must be ordered separately.

| Side Mounting<br>Bracket Kit  | Top Mounting<br>Bracket Kit   | Utility Pole Mounting<br>Bracket Kit  |
|---|---|---|
| CWT-MKS-SIDE  | CWT-MKS-TOP   | WB3X-MKS-01   |
|  |  |  |

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