

## 4U4VTSP1X06F<sub>xy</sub>s5



### Features

- Sector & omni configuration with 32 connectors
- 4x4 MIMO capable in both omni and tri-sectored configurations at 1695-2700 and 3300-4200 MMHz
- Broadband networks 1695-2700 and 3300-4200 MHz
- Improvements in gain, port isolation and VSWR
- Easily removable lifting ring

| PRODUCT OVERVIEW | Frequency Range (MHz)                              | (8x) 1695-2700  |   | (8x) 3300-4200  |   |
|------------------|--|---|---|---|---|
|                  | Array  | <div><div>Y1</div><div>Y4</div></div> <div><div>Y2</div><div>Y5</div></div> <div><div>Y3</div><div>Y6</div></div> | <div><div>Y7</div></div> <div><div>Y8</div></div> | <div><div>P1</div><div>P4</div></div> <div><div>P2</div><div>P5</div></div> <div><div>P3</div><div>P6</div></div> | <div><div>P7</div></div> <div><div>P8</div></div> |
|                  | Connector  | 12 PORTS  | 4 PORTS   | 12 PORTS  | 4 PORTS   |
|                  | Polarization                                       | XPOL  | XPOL  | XPOL  | XPOL  |
|                  | Azimuth Beamwidth (avg)                            | SECTORIZED  | OMNI  | SECTORIZED  | OMNI  |
|                  | Electrical Downtilt                                | 0°, 2°, 4°, 6°  |   | 0°, 2°, 4°, 6°  |   |
|                  | Configuration                                      | SECTOR & OMNI COMBINATION   |   |   |   |
|                  | Maximum Continuous Power Per Port @ 50° C (122° F) | 200 WATTS   |   | 100 WATTS   |   |
|                  | Maximum Total Continuous Power at 50° C (122° F)   | 4800 WATTS  |   |   |   |
|                  | Connector Type                                     | (32x) 4.3-10 FEMALE   |   |   |   |
|                  | Dimensions   | 608 x Ø371 mm (23.9 x Ø14.6 in)   |   |   |   |
|                  | Radome Color Options                               | GREY, BROWN or BLACK  |   |   |   |

### ELECTRICAL SPECIFICATIONS

Sectorized

Y1 Y2 Y3 Y4 Y5 Y6

| Frequency Range                                       |           | MHz     | (6x) 1695-2700     |              |               |               |
|---|-----------|---------|--------------------|--------------|---------------|---------------|
| Frequency Sub-Range                                   |           | MHz     | 1695-1880          | 1850-1990    | 1920-2200     | 2300-2700     |
| Polarization  |           | ---     | (6x) ±45°          |              |               |               |
| Gain  | BASTA     | dBi     | 11.6 ± 0.84        | 11.66 ± 1.02 | 11.67 ± 1.28  | 12.33 ± 0.87  |
|   | MAX       | dBi     | 12.44              | 12.68        | 12.95         | 13.20         |
| Azimuth Beamwidth (3 dB)                              |           | degrees | 63.3° ± 6.4°       | 62.3° ± 8.4° | 67.7° ± 13.7° | 73.6° ± 10.1° |
| Elevation Beamwidth (3 dB)                            |           | degrees | 29.3° ± 4.0°       | 27.5° ± 2.5° | 26.2° ± 2.5°  | 22.3° ± 2.9°  |
| Electrical Downtilt                                   |           | degrees | (x) 0°, 2°, 4°, 6° |              |               |               |
| Impedance   |           | Ohms    | 50Ω                |              |               |               |
| VSWR  |           | ---     | 1.5:1              |              |               |               |
| Passive Intermodulation 3rd Order for 2x20 W Carriers |           | dBc     | -153               |              |               |               |
| Upper Sidelobe Suppression                            |           | dB      | N/A                | N/A          | N/A           | N/A           |
| Isolation   | Intraband | dB      | 25                 |              |               |               |
|   | Interband | dB      | 28                 |              |               |               |

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

## 4U4VTSP1X06F<sub>xy</sub>s5

### ELECTRICAL SPECIFICATIONS Omni

■ Y7 ■ Y8

|  |           |         |                            |                            |                            |                            |
|--|-----------|---------|----------------------------|----------------------------|----------------------------|----------------------------|
| Frequency Range  |           | MHz     | (2x) 1695-2700             |                            |                            |                            |
| Frequency Sub-Range                                      |           | MHz     | 1695-1880                  | 1850-1990                  | 1920-2200                  | 2300-2700                  |
| Polarization   |           | ---     | (2x) $\pm 45^\circ$        |                            |                            |                            |
| Gain   | BASTA     | dBi     | $7.79 \pm 1.40$            | $9.08 \pm 1.13$            | $9.72 \pm 1.53$            | $9.83 \pm 1.15$            |
|  | MAX       | dBi     | 9.19                       | 10.21                      | 11.25                      | 10.98                      |
| Azimuth Beamwidth (3 dB)                                 |           | degrees | 360°                       | 360°                       | 360°                       | 360°                       |
| Elevation Beamwidth (3 dB)                               |           | degrees | $19.2^\circ \pm 2.2^\circ$ | $17.4^\circ \pm 1.8^\circ$ | $16.8^\circ \pm 1.6^\circ$ | $14.3^\circ \pm 1.3^\circ$ |
| Electrical Downtilt                                      |           | degrees | (x) 0°, 2°, 4°, 6°         |                            |                            |                            |
| Impedance  |           | Ohms    | 50Ω                        |                            |                            |                            |
| VSWR   |           | ---     | 1.5:1                      |                            |                            |                            |
| Passive Intermodulation<br>3rd Order for 2x20 W Carriers |           | dBc     | -153                       |                            |                            |                            |
| Upper Sidelobe Suppression                               |           | dB      | N/A                        | N/A                        | N/A                        | N/A                        |
| Isolation  | Intraband | dB      | 25                         |                            |                            |                            |
|  | Interband | dB      | 28                         |                            |                            |                            |

### ELECTRICAL SPECIFICATIONS Sectorized

■ P1 ■ P2 ■ P3 ■ P4 ■ P5 ■ P6

|  |           |         |                            |                            |                            |
|--|-----------|---------|----------------------------|----------------------------|----------------------------|
| Frequency Range  |           | MHz     | (6x) 3300-4200             |                            |                            |
| Frequency Sub-Range                                      |           | MHz     | 3300-3550                  | 3550-3700                  | 3700-4200                  |
| Polarization   |           | ---     | (6x) $\pm 45^\circ$        |                            |                            |
| Gain   | BASTA     | dBi     | $13.88 \pm 0.48$           | $14.27 \pm 0.71$           | $15.1 \pm 1.86$            |
|  | MAX       | dBi     | 14.36                      | 14.98                      | 16.96                      |
| Azimuth Beamwidth (3 dB)                                 |           | degrees | $60.2^\circ \pm 2.6^\circ$ | $56.1^\circ \pm 4.1^\circ$ | $54.5^\circ \pm 3.9^\circ$ |
| Elevation Beamwidth (3 dB)                               |           | degrees | $17.6^\circ \pm 0.8^\circ$ | $17.0^\circ \pm 0.8^\circ$ | $15.9^\circ \pm 1.1^\circ$ |
| Electrical Downtilt                                      |           | degrees | (y) 0°, 2°, 4°, 6°         |                            |                            |
| Impedance  |           | Ohms    | 50Ω                        |                            |                            |
| VSWR   |           | ---     | 1.5:1                      |                            |                            |
| Passive Intermodulation<br>3rd Order for 2x20 W Carriers |           | dBc     | -153                       |                            |                            |
| Upper Sidelobe Suppression                               |           | dB      | N/A                        |                            |                            |
| Isolation  | Intraband | dB      | 25                         |                            |                            |
|  | Interband | dB      | 28                         |                            |                            |

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## 4U4VTSP1X06F<sub>xy</sub>s5

### ELECTRICAL SPECIFICATIONS Omni

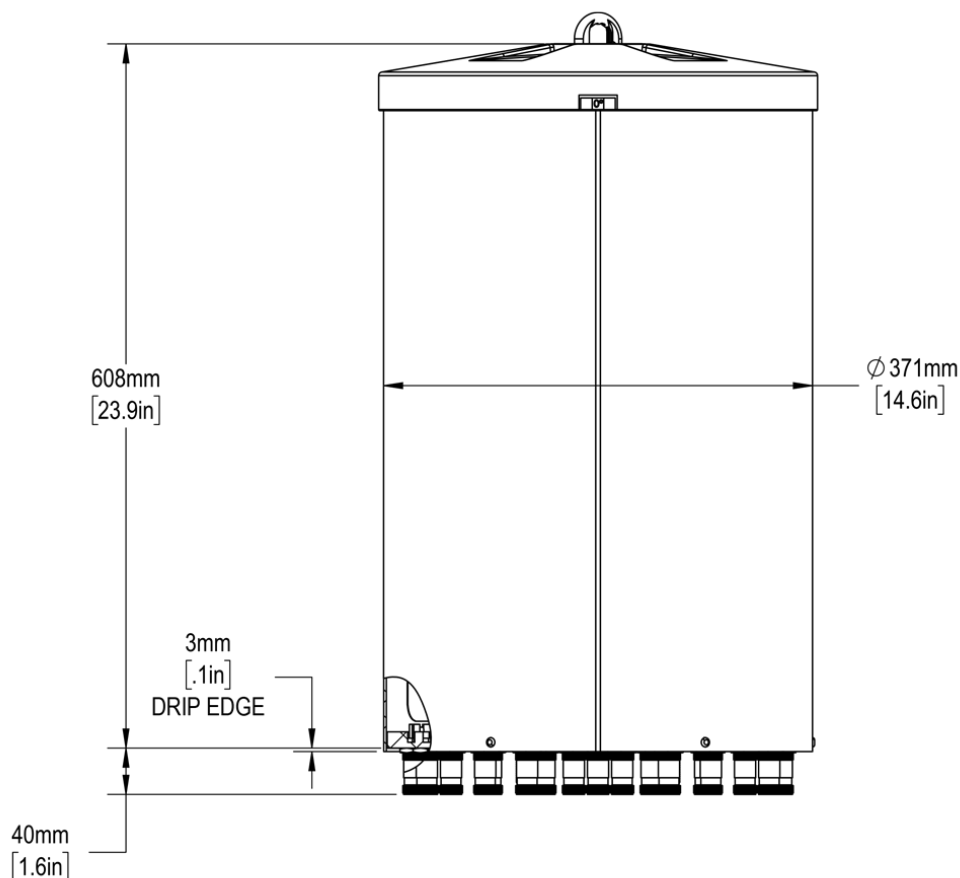
■ P7 ■ P8

|  |           |         |                           |                           |                           |
|--|-----------|---------|---------------------------|---------------------------|---------------------------|
| Frequency Range  |           | MHz     | (2x) 3300-4200            |                           |                           |
| Frequency Sub-Range                                      |           | MHz     | 3300-3550                 | 3550-3700                 | 3700-4200                 |
| Polarization   |           | ---     | (2x) $\pm 45^\circ$       |                           |                           |
| Gain   | BASTA     | dBi     | $11.02 \pm 0.69$          | $11.06 \pm 0.72$          | $11.73 \pm 0.72$          |
|  | MAX       | dBi     | 11.71                     | 11.78                     | 12.45                     |
| Azimuth Beamwidth (3 dB)                                 |           | degrees | 360°                      | 360°                      | 360°                      |
| Elevation Beamwidth (3 dB)                               |           | degrees | $7.7^\circ \pm 0.4^\circ$ | $7.5^\circ \pm 0.4^\circ$ | $7.2^\circ \pm 0.4^\circ$ |
| Electrical Downtilt                                      |           | degrees | (y) 0°, 2°, 4°, 6°        |                           |                           |
| Impedance  |           | Ohms    | 50Ω                       |                           |                           |
| VSWR   |           | ---     | 1.5:1                     |                           |                           |
| Passive Intermodulation<br>3rd Order for 2x20 W Carriers |           | dBc     | -153                      |                           |                           |
| Upper Sidelobe Suppression                               |           | dB      | N/A                       |                           |                           |
| Isolation  | Intraband | dB      | 25                        |                           |                           |
|  | Interband | dB      | 28                        |                           |                           |

## 4U4VTSP1X06F<sub>xy</sub>s5

### MECHANICAL SPECIFICATIONS

|                                       |             |                                   |   |
|---------------------------------------|-------------|-----------------------------------|---|
| Antenna                               | Height      | mm (in)                           | 608 (23.9)  |
|                                       | Diameter    | mm (in)                           | 371 (14.6)  |
| Net Weight - Antenna Only             |             | kg (lbs)                          | 14.1 (31)   |
| Windload                              | Calculation | km/h (mph)                        | 160 (100)   |
|                                       | Frontal     | N (lbf)                           | 191 (43)  |
| Survival Wind Speed                   |             | km/h (mph)                        | 241 (150)   |
| Wind Area                             |             | m <sup>2</sup> (ft <sup>2</sup> ) | 0.22 (2.4)  |
| Volume                                |             | m <sup>3</sup> (ft <sup>3</sup> ) | 0.07 (2.3)  |
| Connector                             | Type        | ---                               | (32x) 4.3-10 Female   |
|                                       | Position    | ---                               | Bottom  |
| Radome Color                          |             | ---                               | Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011) |
| Lightning Protection (Grounding Type) |             | ---                               | Direct Ground   |

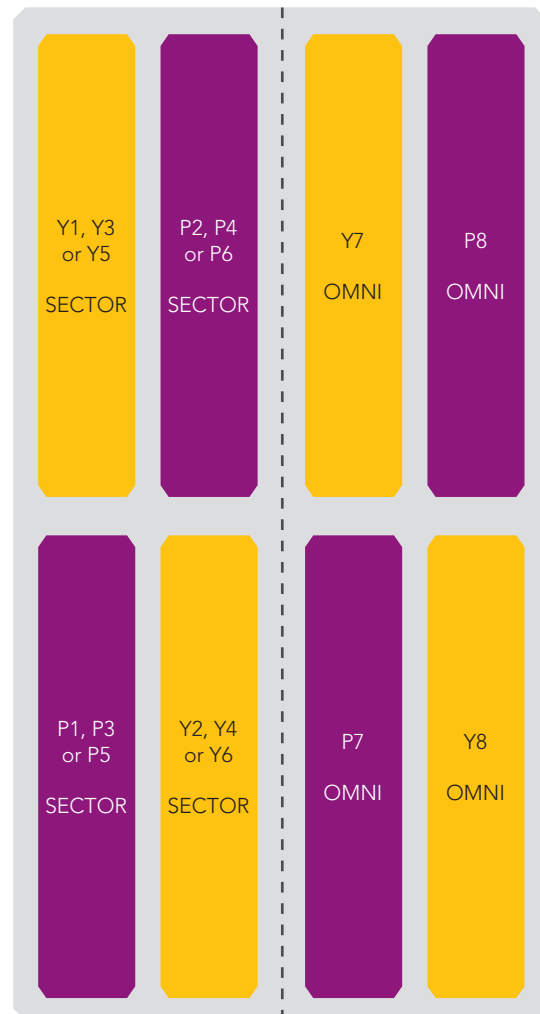


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### ARRAY LAYOUT Topology

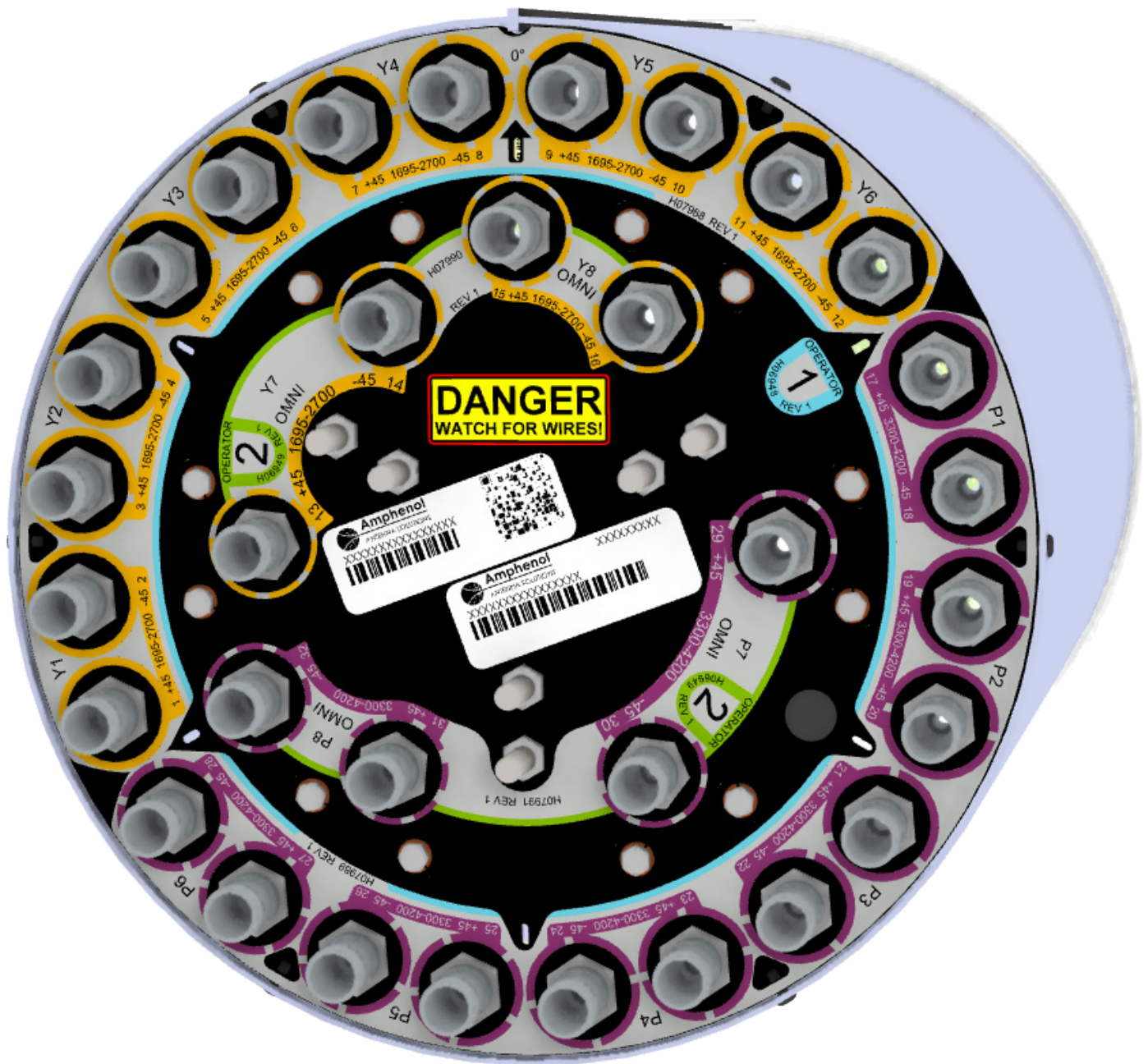
| FREQUENCY     | ARRAY | CONNECTOR | CONNECTOR TYPE     |
|---------------|-------|-----------|--------------------|
| 1695-2700 MHz | ■ Y1  | 1-2       | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y2  | 3-4       | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y3  | 5-6       | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y4  | 7-8       | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y5  | 9-10      | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y6  | 11-12     | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y7  | 13-14     | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y8  | 15-16     | (2x) 4.3-10 Female |
| 3300-4200 MHz | ■ P1  | 17-18     | (2x) 4.3-10 Female |
| 3300-4200 MHz | ■ P2  | 19-20     | (2x) 4.3-10 Female |
| 3300-4200 MHz | ■ P3  | 21-22     | (2x) 4.3-10 Female |
| 3300-4200 MHz | ■ P4  | 23-24     | (2x) 4.3-10 Female |
| 3300-4200 MHz | ■ P5  | 25-26     | (2x) 4.3-10 Female |
| 3300-4200 MHz | ■ P6  | 27-28     | (2x) 4.3-10 Female |
| 3300-4200 MHz | ■ P7  | 29-30     | (2x) 4.3-10 Female |
| 3300-4200 MHz | ■ P8  | 31-32     | (2x) 4.3-10 Female |



The illustration is not shown to scale.

## 4U4VTSP1X06F<sub>xy</sub>s5

BOTTOM VIEW - LABELING

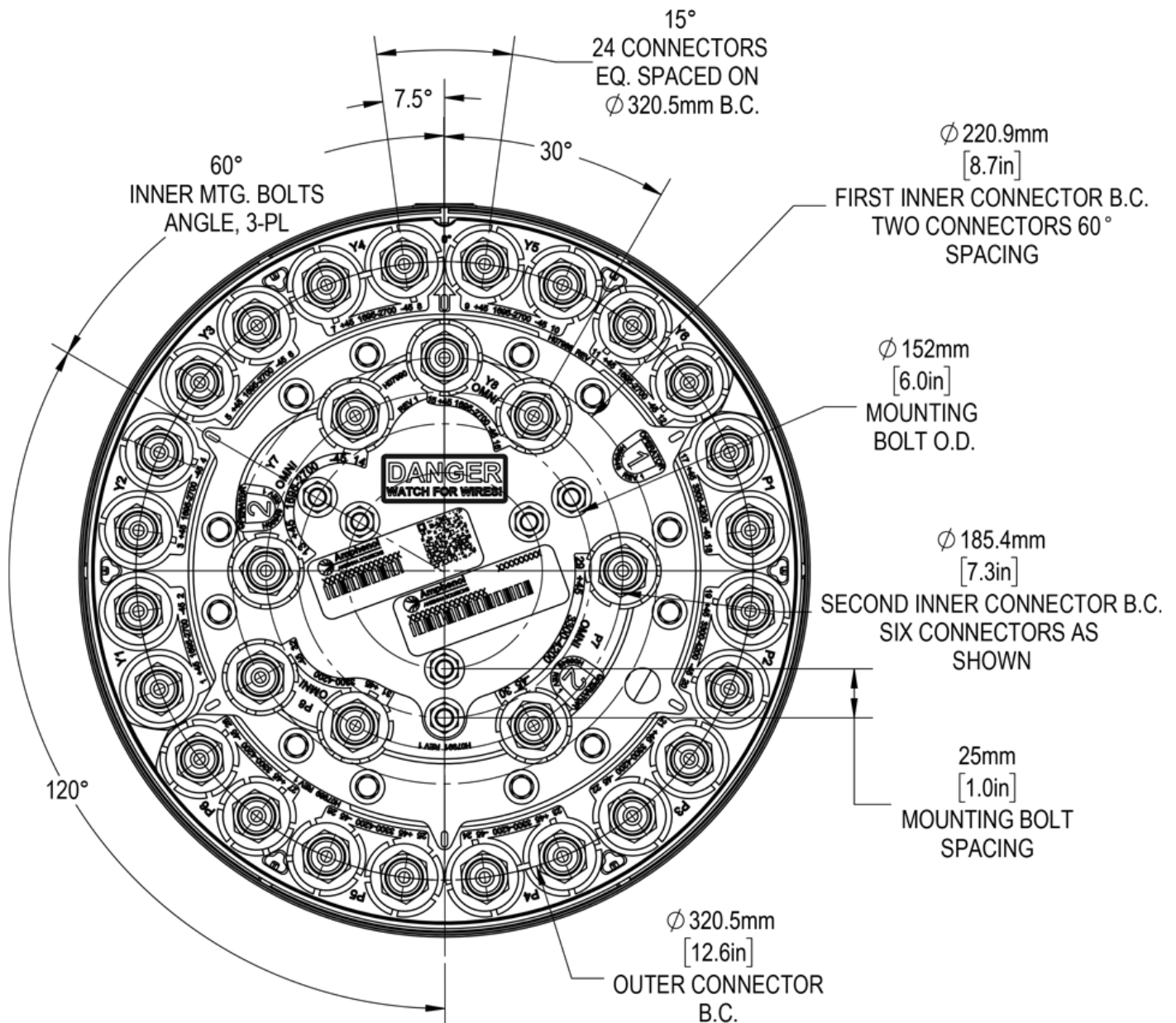


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### BOTTOM VIEW - CONNECTOR DIAGRAM



**INSTALLATION** Please read all installation notes before installing this product.



Always attach the antenna using all mounting points.

Do not install the antenna with the connectors facing upwards.

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## 4U4VTSP1X06F<sub>xy</sub>s5

**MOUNTING KITS** Select from the following mounting options when ordering. Mounting kits for canister antennas are ordered as a separate line item.

| MODEL NUMBER    |   | DESCRIPTION   |
|-----------------|---|---|
| CWT-MKS-SIDE    |    | SIDE MOUNTING BRACKET KIT FOR CANISTER ANTENNA  |
| CWT-MKS-TOP     |   | TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA   |
| WB3X-MKS-01     |  | UTILITY POLE MOUNTING BRACKET KIT FOR CANISTER ANTENNA  |
| CWT-MKS-BASE-xx |  | WIDE DIAMETER POLE TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA. AVAILABLE IN BROWN, BLACK AND GREY TO MATCH ANTENNA RADOME AND/OR MOUNTING STRUCTURE. |

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## 4U4VTSP1X06F<sub>xy</sub>s5

### HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

| NUMBER OF BANDS and OPERATING FREQUENCY |                   | PATTERN TYPE | AZIMUTH BMWDTH               | POLARIZA-TION | LENGTH        | TILT TYPE     | TILT OPTIONS   | CONNECTOR TYPE      | VARIATION  | RADOME COLOR OPTIONS   |
|---|-------------------|--------------|------------------------------|---------------|---------------|---------------|--|---------------------|--|--|
| 4U                                      | 4V                | T            | SP1                          | X             | 06            | F             | xy   | s                   | 5  | BK<br>BR   |
| (8x)<br>1695-2700                       | (8x)<br>3300-4200 | Tri-Sector   | Sector & Omni<br>Combination | XPOL          | 0.6<br>meters | Fixed<br>Tilt | These letters are<br>placeholders for<br>fixed tilt<br>options.<br><br>Refer to<br>Electrical Speci-<br>fications for avail-<br>able tilt options. | 4.3-10<br>Connector | 5th<br>generation<br>small cell<br>antenna<br>design | BK indicates a<br>Black radome.<br><br>BR indicates a<br>Brown radome.<br><br>The default<br>radome color is<br>Grey. No letters<br>are required for a<br>Grey radome. |

### ORDERING OPTIONS

Select from the following ordering options

| SELECT RADOME COLOR   | SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND |               | MODEL NUMBER      |
|-----------------------|--|---------------|-------------------|
|                       | 1695-2700 MHz                                      | 3300-4200 MHz |                   |
| Grey<br>Pantone 420 C | 0°   | 0°            | 4U4VTSP1X06F00s5  |
|                       | 0°   | 2°            | 4U4VTSP1X06F02s5  |
|                       | 0°   | 4°            | 4U4VTSP1X06F04s5  |
|                       | 0°   | 6°            | 4U4VTSP1X06F06s5  |
|                       | 2°   | 0°            | 4U4VTSP1X06F20s5  |
|                       | 2°   | 2°            | 4U4VTSP1X06F22s5  |
|                       | 2°   | 4°            | 4U4VTSP1X06F24s5  |
|                       | 2°   | 6°            | 4U4VTSP1X06F26s5  |
|                       | 4°   | 0°            | 4U4VTSP1X06F40s5  |
|                       | 4°   | 2°            | 4U4VTSP1X06F42s5  |
|                       | 4°   | 4°            | 4U4VTSP1X06F44s5  |
|                       | 4°   | 6°            | 4U4VTSP1X06F46s5  |
|                       | 6°   | 0°            | 4U4VTSP1X06F60s5  |
|                       | 6°   | 2°            | 4U4VTSP1X06F62s5  |
|                       | 6°   | 4°            | 4U4VTSP1X06F64s5  |
|                       | 6°   | 6°            | 4U4VTSP1X06F66s5  |
|                       | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 0°            | 4U4VTSP1X06FA0s5  |
|                       | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 2°            | 4U4VTSP1X06FA2s5  |
|                       | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 4°            | 4U4VTSP1X06FA4s5  |
|                       | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 6°            | 4U4VTSP1X06FA6s5  |
|                       | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 0°            | 4U4VTSP1X06FB0s5  |
|                       | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 2°            | 4U4VTSP1X06FB2s5  |
|                       | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 4°            | 4U4VTSP1X06FB4s5  |
|                       | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 6°            | 4U4VTSP1X06FB6s5  |
|                       | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 0°            | 4U4VTSP1X06FC0s5  |
|                       | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 2°            | 4U4VTSP1X06FC20s5 |
|                       | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 4°            | 4U4VTSP1X06FC40s5 |
|                       | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 6°            | 4U4VTSP1X06FC60s5 |

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## 4U4VTSP1X06F<sub>xys</sub>5

### ORDERING OPTIONS

Select from the following ordering options

| SELECT RADOME COLOR    | SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND |               | MODEL NUMBER        |
|------------------------|--|---------------|---------------------|
|                        | 1695-2700 MHz                                      | 3300-4200 MHz |                     |
| Brown<br>Pantone 476 C | 0°   | 0°            | 4U4VTSP1X06F00s5BR  |
|                        | 0°   | 2°            | 4U4VTSP1X06F02s5BR  |
|                        | 0°   | 4°            | 4U4VTSP1X06F04s5BR  |
|                        | 0°   | 6°            | 4U4VTSP1X06F06s5BR  |
|                        | 2°   | 0°            | 4U4VTSP1X06F20s5BR  |
|                        | 2°   | 2°            | 4U4VTSP1X06F22s5BR  |
|                        | 2°   | 4°            | 4U4VTSP1X06F24s5BR  |
|                        | 2°   | 6°            | 4U4VTSP1X06F26s5BR  |
|                        | 4°   | 0°            | 4U4VTSP1X06F40s5BR  |
|                        | 4°   | 2°            | 4U4VTSP1X06F42s5BR  |
|                        | 4°   | 4°            | 4U4VTSP1X06F44s5BR  |
|                        | 4°   | 6°            | 4U4VTSP1X06F46s5BR  |
|                        | 6°   | 0°            | 4U4VTSP1X06F60s5BR  |
|                        | 6°   | 2°            | 4U4VTSP1X06F62s5BR  |
|                        | 6°   | 4°            | 4U4VTSP1X06F64s5BR  |
|                        | 6°   | 6°            | 4U4VTSP1X06F66s5BR  |
|                        | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 0°            | 4U4VTSP1X06FA0s5BR  |
|                        | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 2°            | 4U4VTSP1X06FA2s5BR  |
|                        | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 4°            | 4U4VTSP1X06FA4s5BR  |
|                        | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 6°            | 4U4VTSP1X06FA6s5BR  |
|                        | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 0°            | 4U4VTSP1X06FB0s5BR  |
|                        | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 2°            | 4U4VTSP1X06FB2s5BR  |
|                        | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 4°            | 4U4VTSP1X06FB4s5BR  |
|                        | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 6°            | 4U4VTSP1X06FB6s5BR  |
|                        | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 0°            | 4U4VTSP1X06FC00s5BR |
|                        | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 2°            | 4U4VTSP1X06FC20s5BR |
|                        | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 4°            | 4U4VTSP1X06FC40s5BR |
|                        | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 6°            | 4U4VTSP1X06FC60s5BR |

## 4U4VTSP1X06F<sub>xys</sub>5

### ORDERING OPTIONS

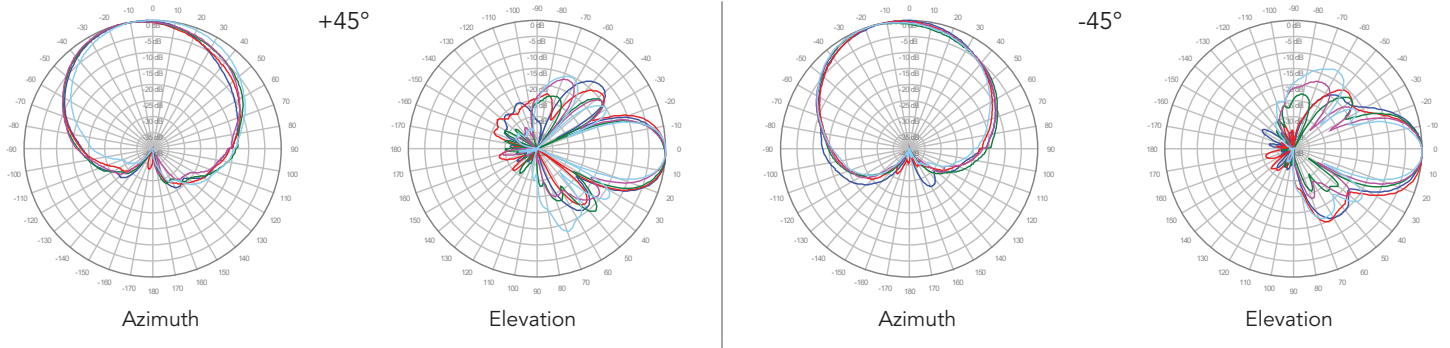
Select from the following ordering options

| SELECT RADOME COLOR | SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND |               | MODEL NUMBER        |
|---------------------|--|---------------|---------------------|
|                     | 1695-2700 MHz                                      | 3300-4200 MHz |                     |
| Black<br>RAL 9011   | 0°   | 0°            | 4U4VTSP1X06F00s5BK  |
|                     | 0°   | 2°            | 4U4VTSP1X06F02s5BK  |
|                     | 0°   | 4°            | 4U4VTSP1X06F04s5BK  |
|                     | 0°   | 6°            | 4U4VTSP1X06F06s5BK  |
|                     | 2°   | 0°            | 4U4VTSP1X06F20s5BK  |
|                     | 2°   | 2°            | 4U4VTSP1X06F22s5BK  |
|                     | 2°   | 4°            | 4U4VTSP1X06F24s5BK  |
|                     | 2°   | 6°            | 4U4VTSP1X06F26s5BK  |
|                     | 4°   | 0°            | 4U4VTSP1X06F40s5BK  |
|                     | 4°   | 2°            | 4U4VTSP1X06F42s5BK  |
|                     | 4°   | 4°            | 4U4VTSP1X06F44s5BK  |
|                     | 4°   | 6°            | 4U4VTSP1X06F46s5BK  |
|                     | 6°   | 0°            | 4U4VTSP1X06F60s5BK  |
|                     | 6°   | 2°            | 4U4VTSP1X06F62s5BK  |
|                     | 6°   | 4°            | 4U4VTSP1X06F64s5BK  |
|                     | 6°   | 6°            | 4U4VTSP1X06F66s5BK  |
|                     | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 0°            | 4U4VTSP1X06FA0s5BK  |
|                     | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 2°            | 4U4VTSP1X06FA2s5BK  |
|                     | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 4°            | 4U4VTSP1X06FA4s5BK  |
|                     | Y1-Y6 = 6°; Y7-Y8 = 2°                             | 6°            | 4U4VTSP1X06FA6s5BK  |
|                     | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 0°            | 4U4VTSP1X06FB0s5BK  |
|                     | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 2°            | 4U4VTSP1X06FB2s5BK  |
|                     | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 4°            | 4U4VTSP1X06FB4s5BK  |
|                     | Y1-Y6 = 4°; Y7-Y8 = 2°                             | 6°            | 4U4VTSP1X06FB6s5BK  |
|                     | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 0°            | 4U4VTSP1X06FC00s5BK |
|                     | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 2°            | 4U4VTSP1X06FC20s5BK |
|                     | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 4°            | 4U4VTSP1X06FC40s5BK |
|                     | Y1-Y6 = 6°; Y7-Y8 = 4°                             | 6°            | 4U4VTSP1X06FC60s5BK |

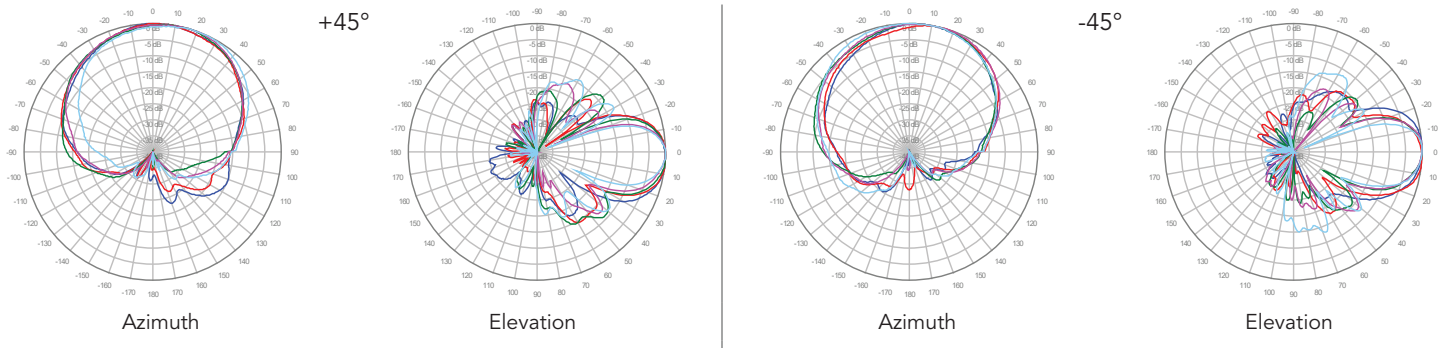
## 4U4VTSP1X06F<sub>xy</sub>s5

1800 MHz —  
1900 MHz —  
2100 MHz —  
2300 MHz —  
2600 MHz —

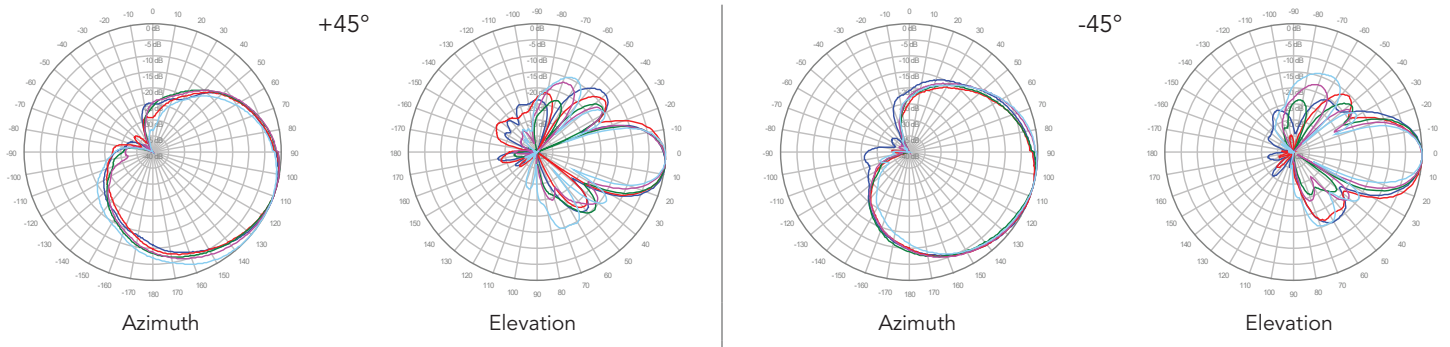
■ Y1, 2° TILT



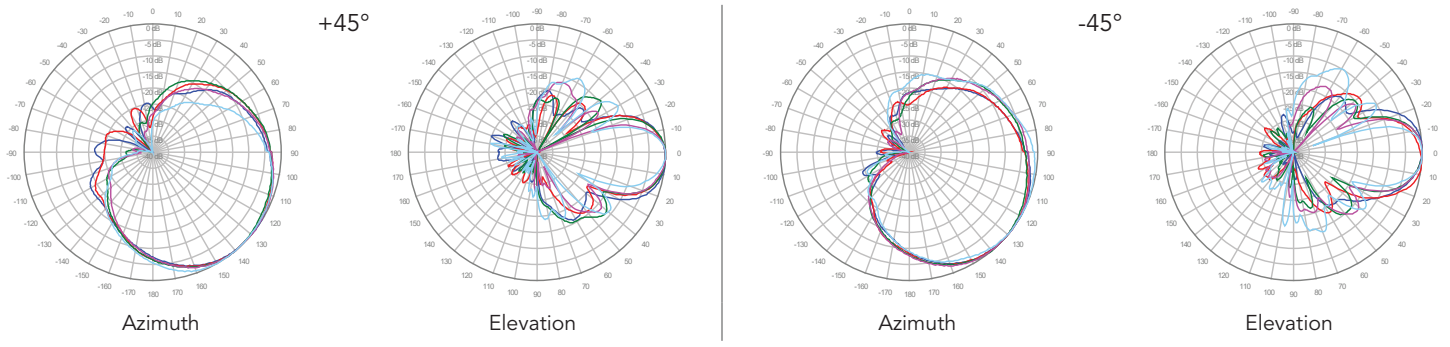
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT

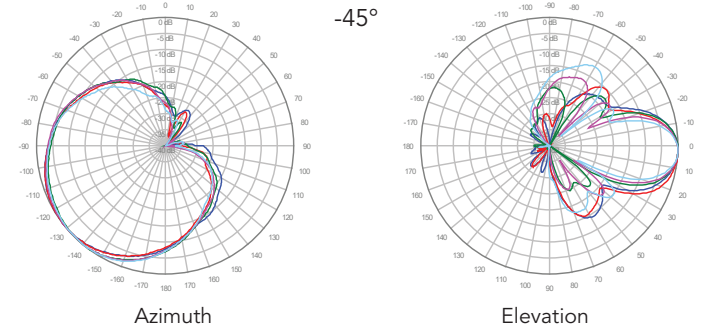
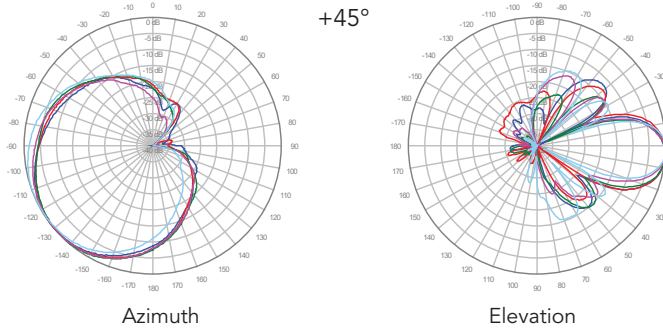


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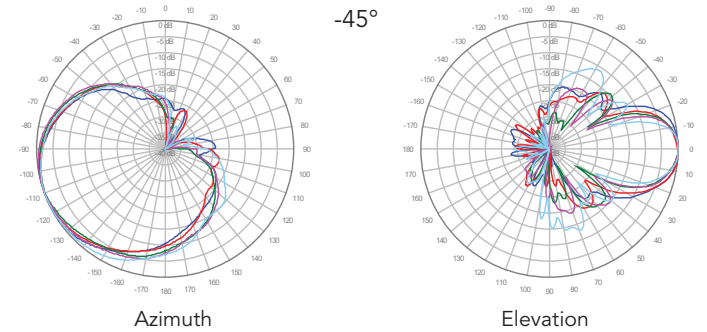
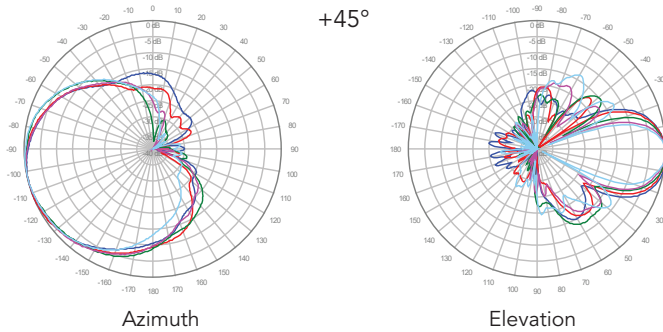
## 4U4VTSP1X06F<sub>xy</sub>s5

1800 MHz —  
1900 MHz —  
2100 MHz —  
2300 MHz —  
2600 MHz —

■ Y5, 2° TILT



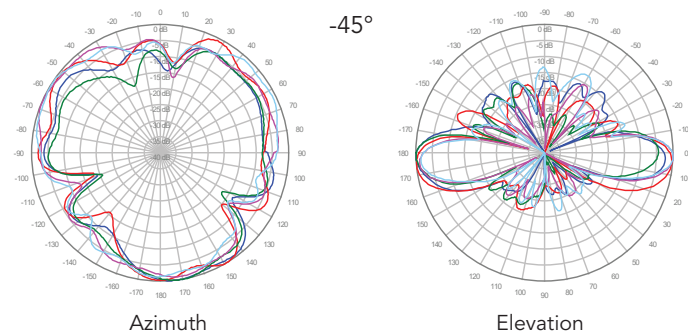
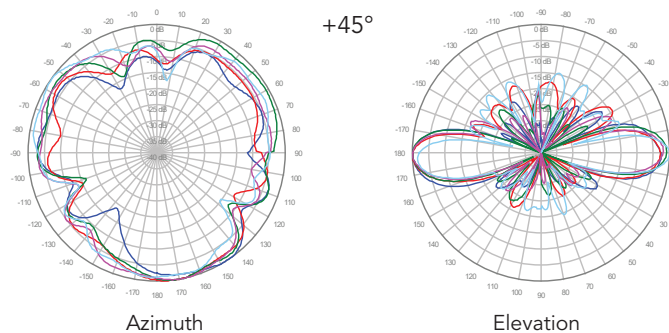
■ Y6, 2° TILT



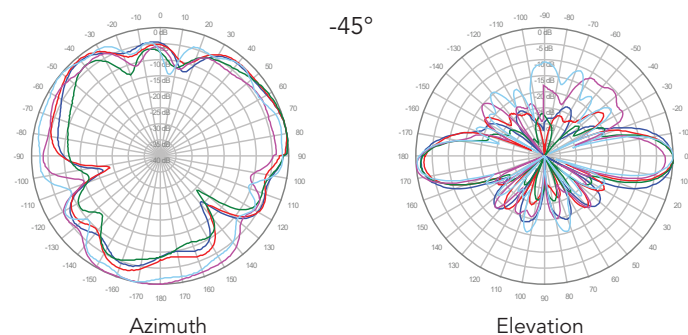
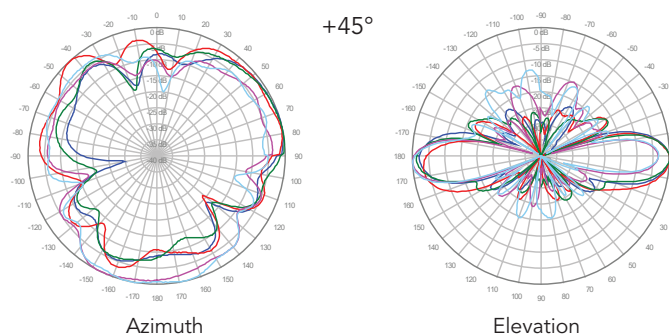
## 4U4VTSP1X06F<sub>xy</sub>s5

1800 MHz —  
1900 MHz —  
2100 MHz —  
2300 MHz —  
2600 MHz —

■ Y7, 2° TILT



■ Y8, 2° TILT



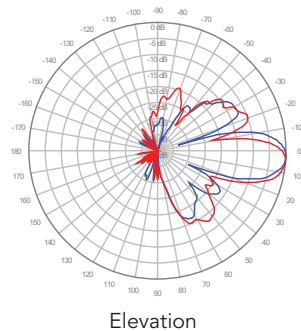
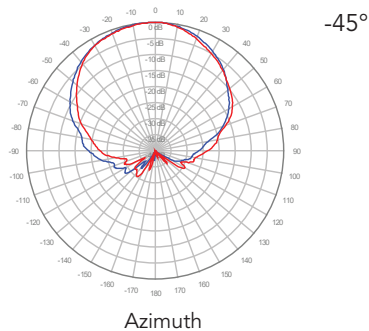
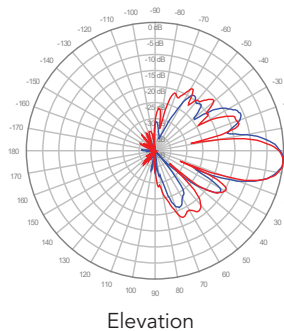
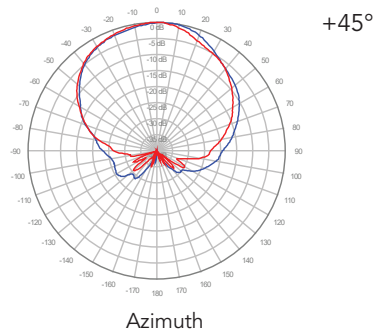


4U4VTSP1X06F<sub>xy</sub>s5

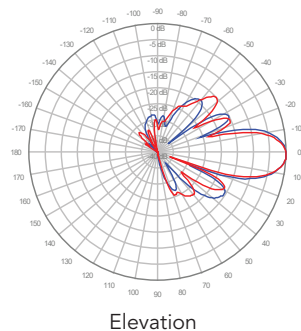
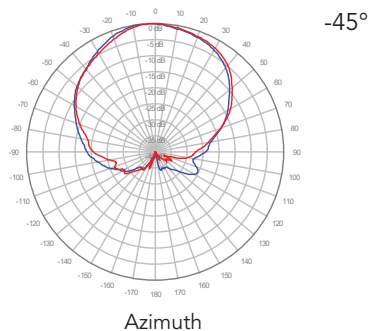
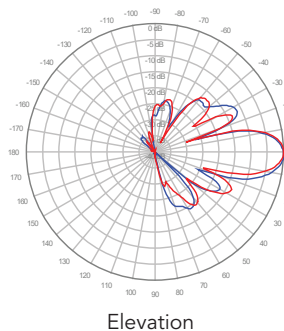
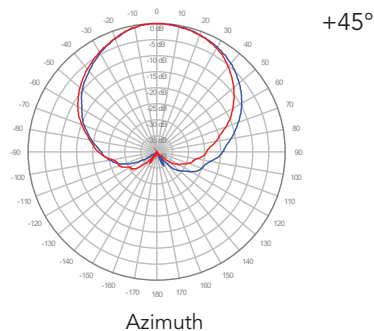
3600 MHz —

4000 MHz —

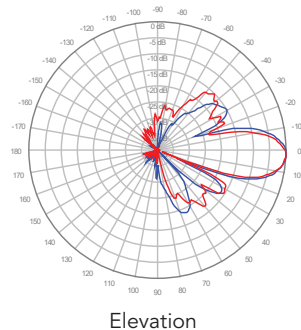
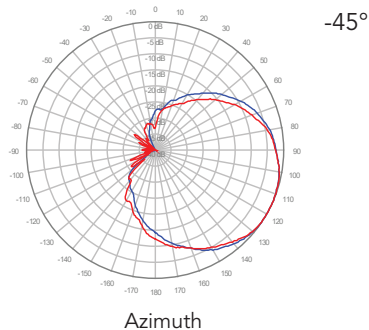
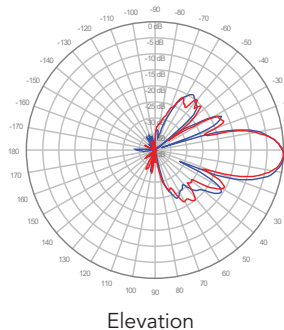
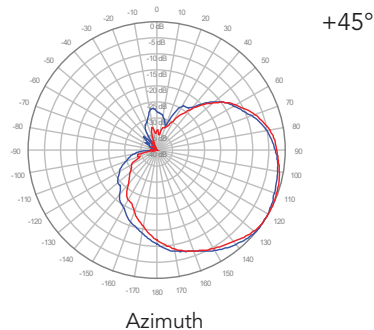
**P1, 2° TILT**



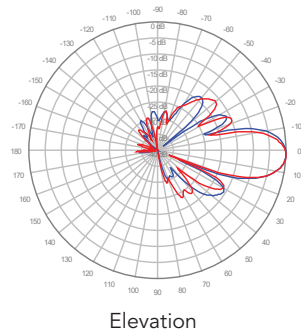
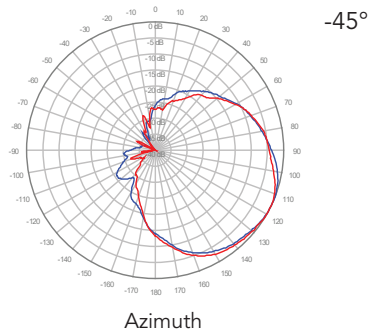
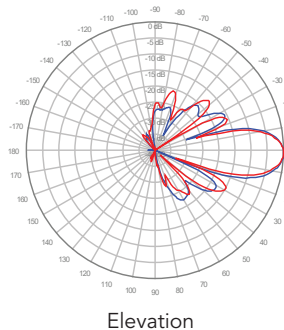
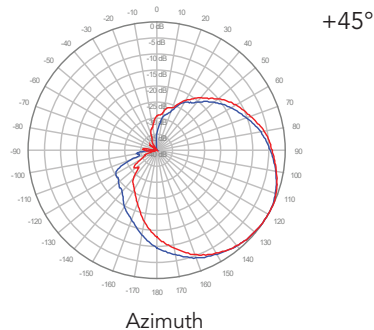
**P2, 2° TILT**



**P3, 2° TILT**



**P4, 2° TILT**

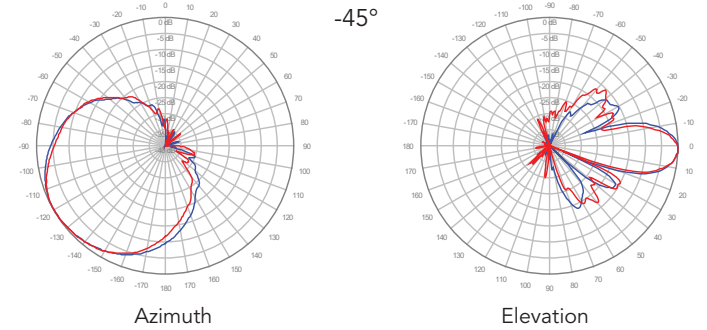
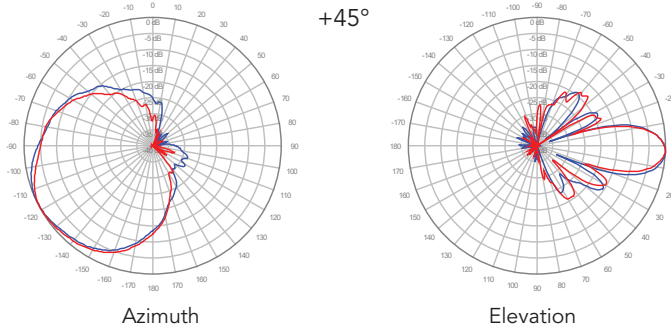


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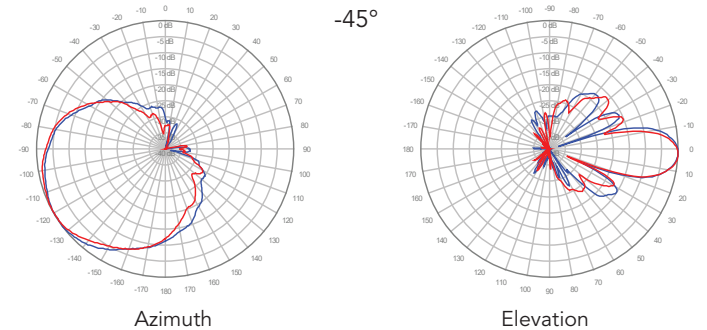
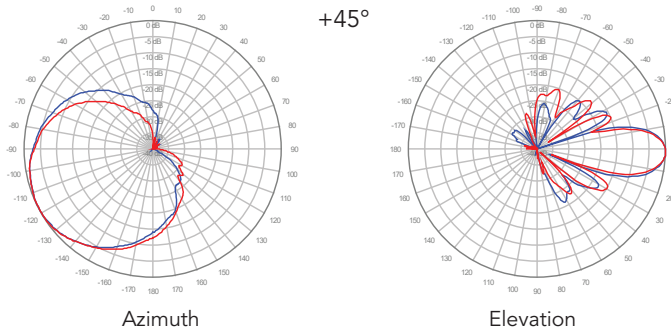
4U4VTSP1X06F<sub>xy</sub>s5

3600 MHz ————  
4000 MHz ————

■ Y5, 2° TILT



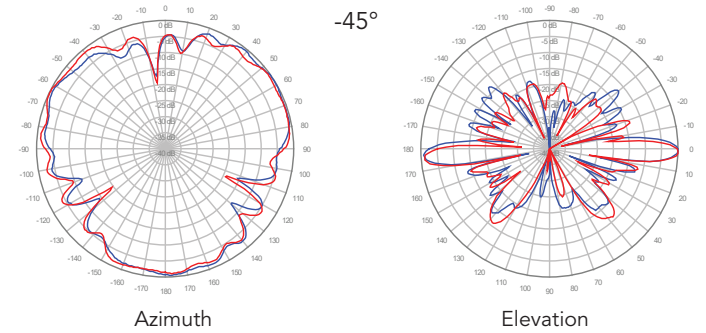
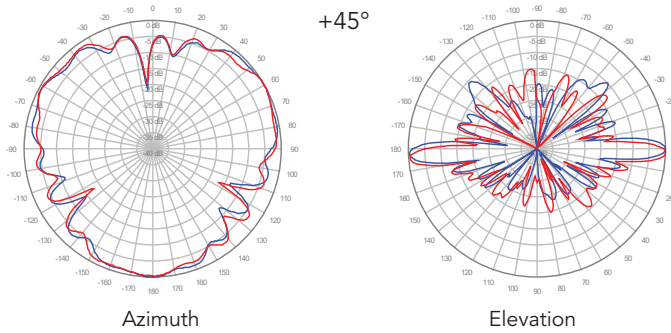
■ Y6, 2° TILT



4U4VTSP1X06F<sub>xy</sub>s5

3600 MHz ————  
4000 MHz ————

■ Y7, 2° TILT



■ Y8, 2° TILT

