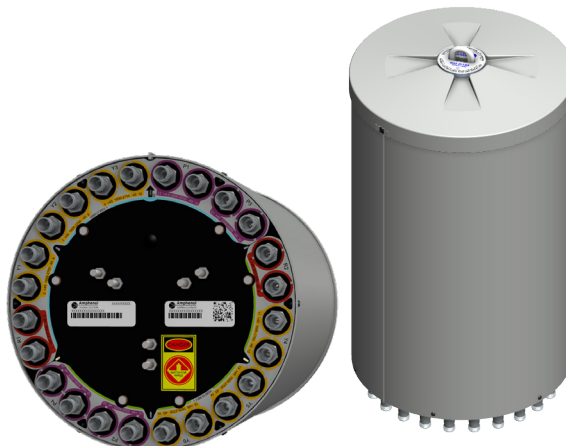


## 2L6U4VT360X06Fwxys4

### Features

- Pseudo omni configuration with 24 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR



| PRODUCT OVERVIEW | Frequency Range (MHz)                              | (2x) 617-906                    | (6x) 1695-2700                | (4x) 3300-4200      |
|------------------|----------------------------------------------------|---------------------------------|-------------------------------|---------------------|
|                  | Array                                              | ■ R1 ■ R2                       | ■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6 | ■ P1 ■ P2 ■ P3 ■ P4 |
|                  | Connector                                          | 4 PORTS                         | 12 PORTS                      | 8 PORTS             |
|                  | Polarization                                       | XPOL                            | XPOL                          | XPOL                |
|                  | Azimuth Beamwidth (avg)                            | 360°                            | 360°                          | 360°                |
|                  | Electrical Downtilt                                | 0°                              | 0°, 2°, 4°, 6°                | 0°                  |
|                  | Configuration                                      | OMNI CONFIGURATION              |                               |                     |
|                  | Maximum Continuous Power Per Port @ 50° C (122° F) | 500 WATTS                       | 300 WATTS                     | 100 WATTS           |
|                  | Maximum Total Continuous Power at 50° C (122° F)   | 6400 WATTS                      |                               |                     |
|                  | Total Connector Count                              | 24 PORTS                        |                               |                     |
|                  | Connector Type                                     | 4.3-10 FEMALE                   |                               |                     |
|                  | Dimensions                                         | 609 x Ø371 mm (23.9 x Ø14.6 in) |                               |                     |
|                  | Radome Color Options                               | GREY, BROWN or BLACK            |                               |                     |

### ELECTRICAL SPECIFICATIONS

■ R1 ■ R2

| Frequency Range                                       |           | MHz     | (2x) 617-906                        |               |
|-------------------------------------------------------|-----------|---------|-------------------------------------|---------------|
| Frequency Sub-Range                                   |           | MHz     | 617-806                             | 806-906       |
| Polarization                                          |           | ---     | (2x) ±45°                           |               |
| Gain                                                  | BASTA     | dBi     | 4.9 ± 0.8                           | 4.5 ± 0.9     |
|                                                       | MAX       | dBi     | 5.7                                 | 5.4           |
| Azimuth Beamwidth (3 dB)                              |           | degrees | 360°                                | 360°          |
| Elevation Beamwidth (3 dB)                            |           | degrees | 60.5° ± 15.4°                       | 49.9° ± 13.8° |
| Electrical Downtilt                                   |           | degrees | (w) 0°                              |               |
| Impedance                                             |           | Ohms    | 50Ω                                 |               |
| VSWR                                                  |           | ---     | ≤ 1.5:1                             |               |
| Passive Intermodulation 3rd Order for 2x20 W Carriers |           | dBc     | -153                                |               |
| Upper Sidelobe Suppression                            |           | dB      | N/A                                 |               |
| Isolation                                             | Intraband | dB      | 25                                  |               |
|                                                       | Interband | dB      | > 28 same band; > 30 different band |               |

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## 2L6U4VT360X06Fwxys4

### ELECTRICAL SPECIFICATIONS

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) $\pm 45^\circ$                      |                                     |                            |                            |
| Gain                                                     | BASTA     | dBi                                      | $6.0 \pm 1.3$                       | $6.4 \pm 1.2$              | $6.5 \pm 1.2$              |
|                                                          | MAX       | dBi                                      | 7.3                                 | 7.6                        | 7.7                        |
| Azimuth Beamwidth (3 dB)                                 | degrees   | 360°                                     | 360°                                | 360°                       | 360°                       |
| Elevation Beamwidth (3 dB)                               | degrees   | $37.4^\circ \pm 8.5^\circ$               | $35.2^\circ \pm 7.6^\circ$          | $33.4^\circ \pm 7.5^\circ$ | $28.4^\circ \pm 6.7^\circ$ |
| Electrical Downtilt                                      | degrees   | (x) $0^\circ, 2^\circ, 4^\circ, 6^\circ$ |                                     |                            |                            |
| Impedance                                                | Ohms      | 50Ω                                      |                                     |                            |                            |
| VSWR                                                     | ---       | $\leq 1.5:1$                             |                                     |                            |                            |
| Passive Intermodulation<br>3rd Order for 2x20 W Carriers | dBc       | -153                                     |                                     |                            |                            |
| Upper Sidelobe Suppression                               | dB        | > 13.6                                   | > 14.1                              | > 13.3                     | > 11.1                     |
| Isolation                                                | Intraband | dB                                       | 25                                  |                            |                            |
|                                                          | Interband | dB                                       | > 28 same band; > 30 different band |                            |                            |

### ELECTRICAL SPECIFICATIONS

P1 P2 P3 P4

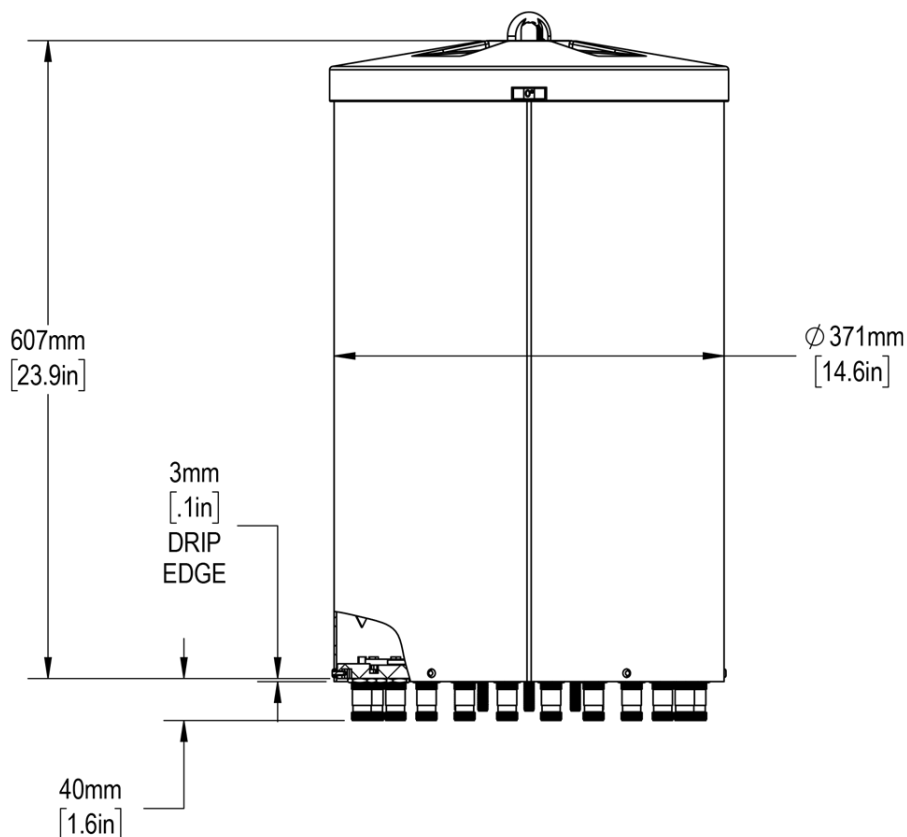
|                                                          |           |                            |                                     |                            |
|----------------------------------------------------------|-----------|----------------------------|-------------------------------------|----------------------------|
| Frequency Range                                          | MHz       | (4x) 3300-4200             |                                     |                            |
| Frequency Sub-Range                                      | MHz       | 3300-3550                  | 3550-3700                           | 3700-4200                  |
| Polarization                                             | ---       | (4x) $\pm 45^\circ$        |                                     |                            |
| Gain                                                     | BASTA     | dBi                        | $5.9 \pm 0.8$                       | $5.2 \pm 0.7$              |
|                                                          | MAX       | dBi                        | 6.7                                 | 5.9                        |
| Azimuth Beamwidth (3 dB)                                 | degrees   | 360°                       | 360°                                | 360°                       |
| Elevation Beamwidth (3 dB)                               | degrees   | $24.2^\circ \pm 5.7^\circ$ | $28.2^\circ \pm 9.7^\circ$          | $26.3^\circ \pm 7.6^\circ$ |
| Electrical Downtilt                                      | degrees   | (y) $0^\circ$              |                                     |                            |
| Impedance                                                | Ohms      | 50Ω                        |                                     |                            |
| VSWR                                                     | ---       | 1.5:1                      |                                     |                            |
| Passive Intermodulation<br>3rd Order for 2x20 W Carriers | dBc       | -153                       |                                     |                            |
| Upper Sidelobe Suppression                               | dB        | > 12.5                     | > 10.8                              | > 12.2                     |
| Isolation                                                | Intraband | dB                         | 25                                  |                            |
|                                                          | Interband | dB                         | > 28 same band; > 30 different band |                            |

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## 2L6U4VT360X06Fwxys4

### MECHANICAL SPECIFICATIONS

|                                       |             |                                   |                                                         |
|---------------------------------------|-------------|-----------------------------------|---------------------------------------------------------|
| Antenna                               | Height      | mm (in)                           | 609 (23.9)                                              |
|                                       | Diameter    | mm (in)                           | 371 (14.6)                                              |
| Net Weight - Antenna Only             |             | kg (lbs)                          | 13.6 (30)                                               |
| 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        | ---                               | (24x) 4.3-10 Female                                     |
|                                       | Position    | ---                               | Bottom                                                  |
| Radome Color                          |             | ---                               | Grey (RAL 7035)<br>Brown (RAL 8022)<br>Black (RAL 9011) |
| Lightning Protection (Grounding Type) |             | ---                               | Direct Ground                                           |

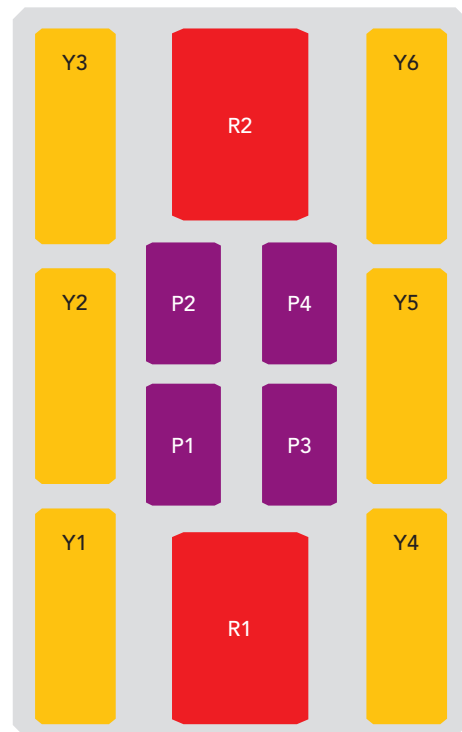


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## 2L6U4VT360X06Fwxys4

### ARRAY LAYOUT Topology

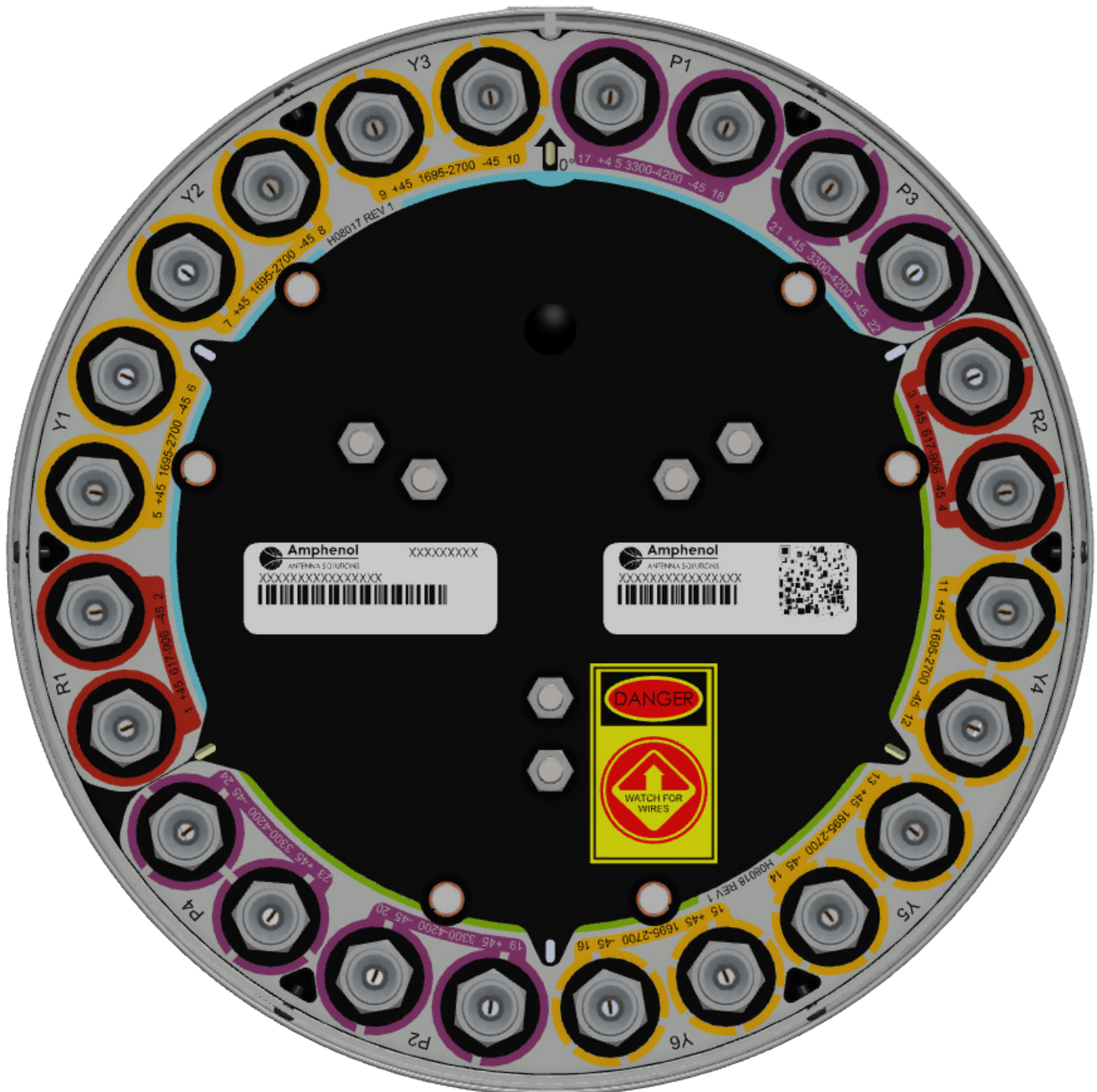
| FREQUENCY     | ARRAY                                    | CONNECTOR | CONNECTOR TYPE     |
|---------------|------------------------------------------|-----------|--------------------|
| 617-906 MHz   | <span style="color: red;">■</span> R1    | 1-2       | (2x) 4.3-10 Female |
| 617-906 MHz   | <span style="color: red;">■</span> R2    | 3-4       | (2x) 4.3-10 Female |
| 1695-2700 MHz | <span style="color: yellow;">■</span> Y1 | 5-6       | (2x) 4.3-10 Female |
| 1695-2700 MHz | <span style="color: yellow;">■</span> Y2 | 7-8       | (2x) 4.3-10 Female |
| 1695-2700 MHz | <span style="color: yellow;">■</span> Y3 | 9-10      | (2x) 4.3-10 Female |
| 1695-2700 MHz | <span style="color: yellow;">■</span> Y4 | 11-12     | (2x) 4.3-10 Female |
| 1695-2700 MHz | <span style="color: yellow;">■</span> Y5 | 13-14     | (2x) 4.3-10 Female |
| 1695-2700 MHz | <span style="color: yellow;">■</span> Y6 | 15-16     | (2x) 4.3-10 Female |
| 3300-4200 MHz | <span style="color: purple;">■</span> P1 | 17-18     | (2x) 4.3-10 Female |
| 3300-4200 MHz | <span style="color: purple;">■</span> P2 | 19-20     | (2x) 4.3-10 Female |
| 3300-4200 MHz | <span style="color: purple;">■</span> P3 | 21-22     | (2x) 4.3-10 Female |
| 3300-4200 MHz | <span style="color: purple;">■</span> P4 | 23-24     | (2x) 4.3-10 Female |



The illustration is not shown to scale.

## 2L6U4VT360X06Fwxys4

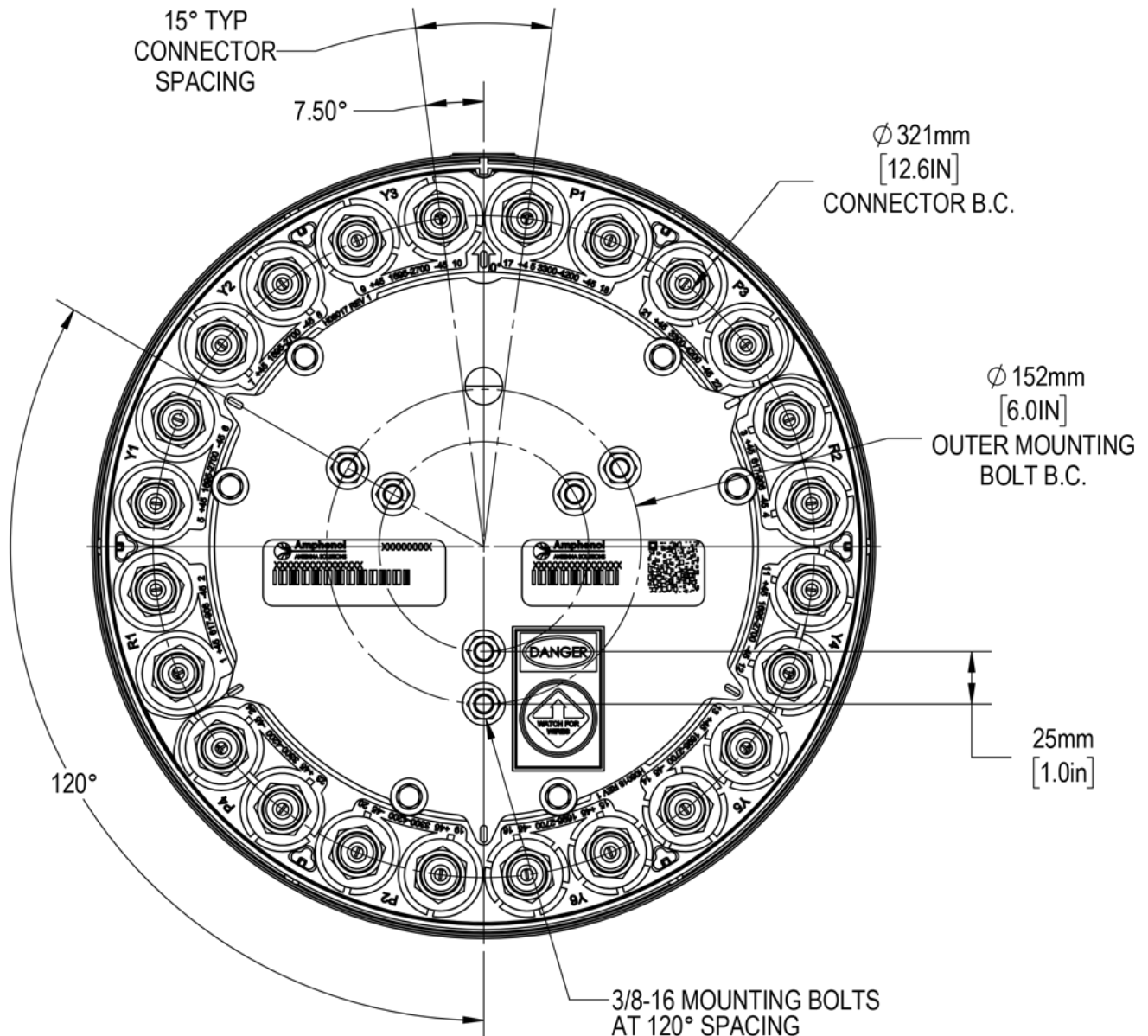
### BOTTOM VIEW - LABELING



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## 2L6U4VT360X06Fwxys4

### 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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## 2L6U4VT360X06Fwxys4

**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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## 2L6U4VT360X06Fwxy<sup>s</sup>4

### HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

| NUMBER OF BANDS and OPERATING FREQUENCY |                   |                   | PATTERN TYPE | AZIMUTH BMWDTH | POLARIZATION | LENGTH     | TILT TYPE  | TILT OPTIONS                                                                                                                 | CONNECTOR TYPE   | VARIATION                                  | RADOME COLOR OPTIONS                                                                                                                                 |
|-----------------------------------------|-------------------|-------------------|--------------|----------------|--------------|------------|------------|------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2L                                      | 6U                | 4V                | T            | 360            | X            | 06         | F          | wxy                                                                                                                          | s                | 4                                          | BK<br>BR                                                                                                                                             |
| (2x)<br>617-906                         | (6x)<br>1695-2700 | (4x)<br>3300-4200 | Tri-Sector   | 360°           | XPOL         | 0.6 meters | Fixed Tilt | These letters are placeholders for fixed tilt options.<br><br>Refer to Electrical Specifications for available tilt options. | 4.3-10 Connector | 4th generation enhanced mechanical package | BK indicates a Black radome.<br><br>BR indicates a Brown radome.<br><br>The default radome color is Grey. No letters are required for a Grey radome. |

### ORDERING OPTIONS

Select from the following ordering options

| SELECT RADOME COLOR | SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND |                          |               | MODEL NUMBER                       |
|---------------------|----------------------------------------------------|--------------------------|---------------|------------------------------------|
|                     | 617-906 MHz                                        | 1695-2700 MHz            | 3300-4200 MHz |                                    |
| Grey<br>RAL 7035    | 0°                                                 | 0°                       | 0°            | 2L6U4VT360X06F000s4                |
|                     | 0°                                                 | 2°                       | 0°            | 2L6U4VT360X06F020s4                |
|                     | 0°                                                 | 4°                       | 0°            | 2L6U4VT360X06F040s4                |
|                     | 0°                                                 | 6°                       | 0°            | 2L6U4VT360X06F060s4                |
|                     | 0°                                                 | Y1 & Y2 = 6°; Y3-Y6 = 2° | 0°            | 2L6U4VT360X06FAAA <sup>s</sup> 4   |
|                     | 0°                                                 | Y1 & Y2 = 4°; Y3-Y6 = 2° | 0°            | 2L6U4VT360X06FBBB <sup>s</sup> 4   |
|                     | 0°                                                 | Y1 & Y2 = 6°; Y3-Y6 = 4° | 0°            | 2L6U4VT360X06FCCC <sup>s</sup> 4   |
| Brown<br>RAL 8022   | 0°                                                 | 0°                       | 0°            | 2L6U4VT360X06F000s4BR              |
|                     | 0°                                                 | 2°                       | 0°            | 2L6U4VT360X06F020s4BR              |
|                     | 0°                                                 | 4°                       | 0°            | 2L6U4VT360X06F040s4BR              |
|                     | 0°                                                 | 6°                       | 0°            | 2L6U4VT360X06F060s4BR              |
|                     | 0°                                                 | Y1 & Y2 = 6°; Y3-Y6 = 2° | 0°            | 2L6U4VT360X06FAAA <sup>s</sup> 4BR |
|                     | 0°                                                 | Y1 & Y2 = 4°; Y3-Y6 = 2° | 0°            | 2L6U4VT360X06FBBB <sup>s</sup> 4BR |
|                     | 0°                                                 | Y1 & Y2 = 6°; Y3-Y6 = 4° | 0°            | 2L6U4VT360X06FCCC <sup>s</sup> 4BR |
| Black<br>RAL 9011   | 0°                                                 | 0°                       | 0°            | 2L6U4VT360X06F000s4BK              |
|                     | 0°                                                 | 2°                       | 0°            | 2L6U4VT360X06F020s4BK              |
|                     | 0°                                                 | 4°                       | 0°            | 2L6U4VT360X06F040s4BK              |
|                     | 0°                                                 | 6°                       | 0°            | 2L6U4VT360X06F060s4BK              |
|                     | 0°                                                 | Y1 & Y2 = 6°; Y3-Y6 = 2° | 0°            | 2L6U4VT360X06FAAA <sup>s</sup> 4BK |
|                     | 0°                                                 | Y1 & Y2 = 4°; Y3-Y6 = 2° | 0°            | 2L6U4VT360X06FBBB <sup>s</sup> 4BK |
|                     | 0°                                                 | Y1 & Y2 = 6°; Y3-Y6 = 4° | 0°            | 2L6U4VT360X06FCCC <sup>s</sup> 4BK |

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OMNI

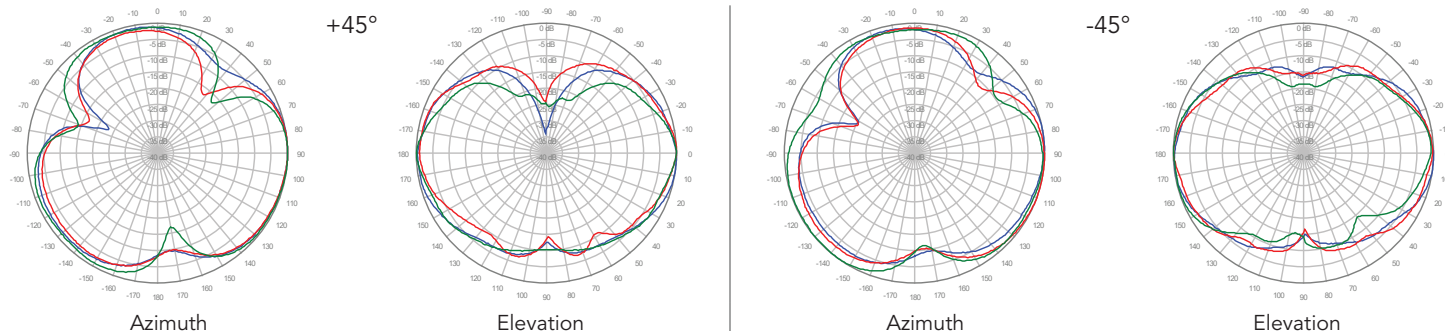
23.9 IN

FIXED TILT

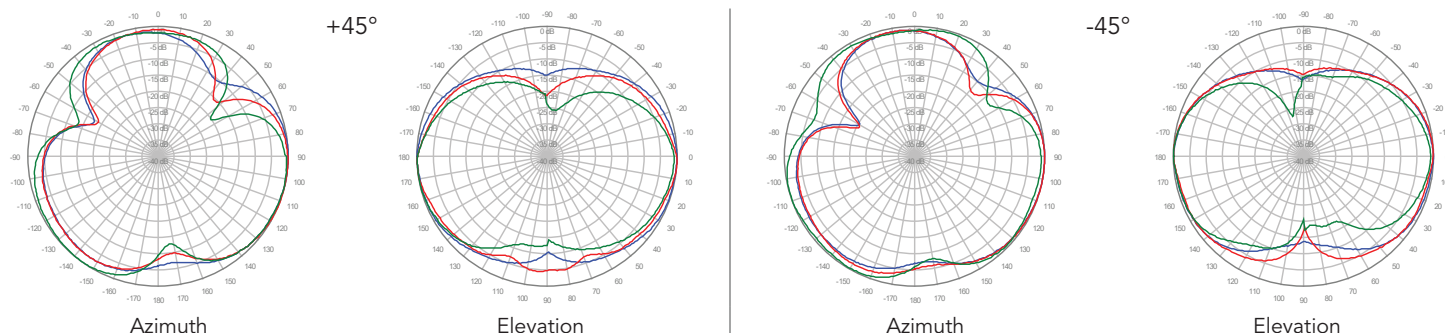
2L6U4VT360X06Fwxy<sup>s</sup>4

650 MHz ———  
750 MHz ———  
850 MHz ———

■ R1, 0° TILT



■ R2, 0° TILT

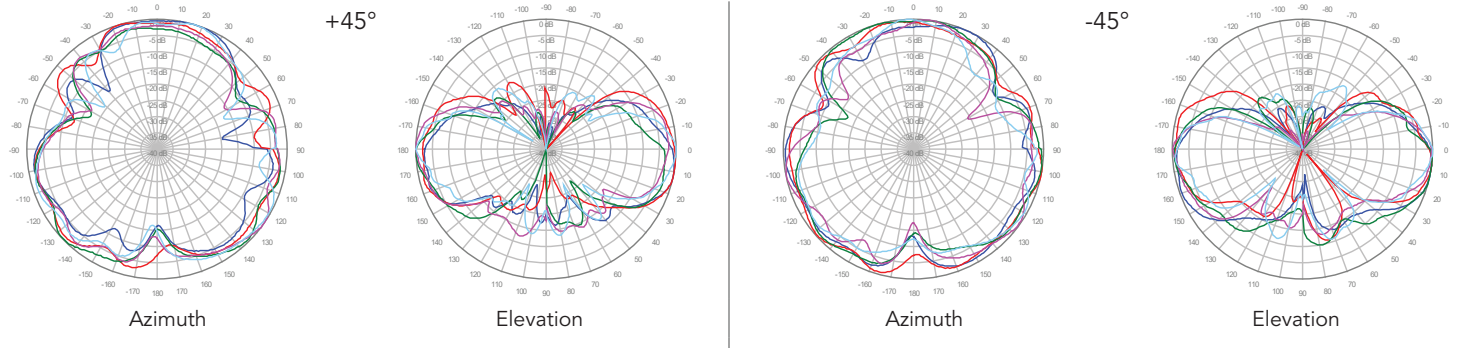


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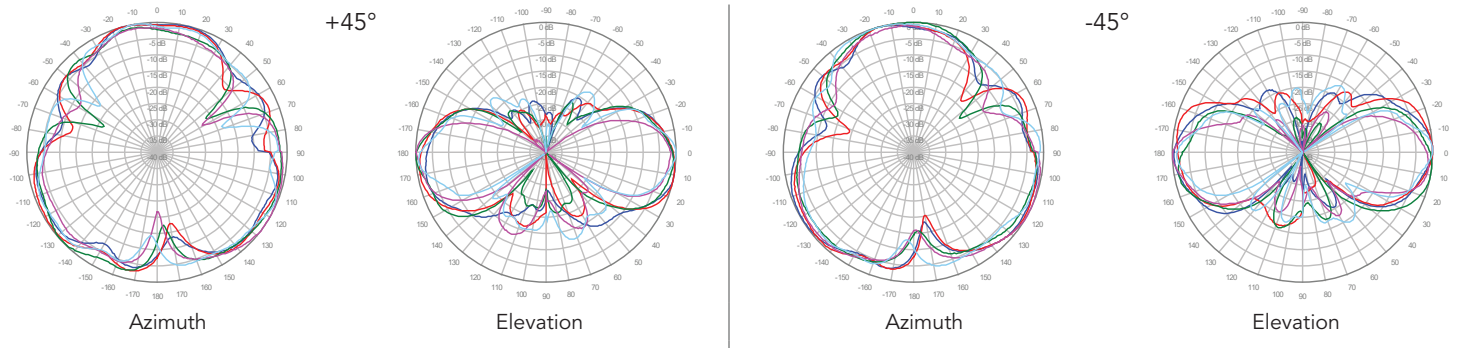
2L6U4VT360X06Fwxyys4

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

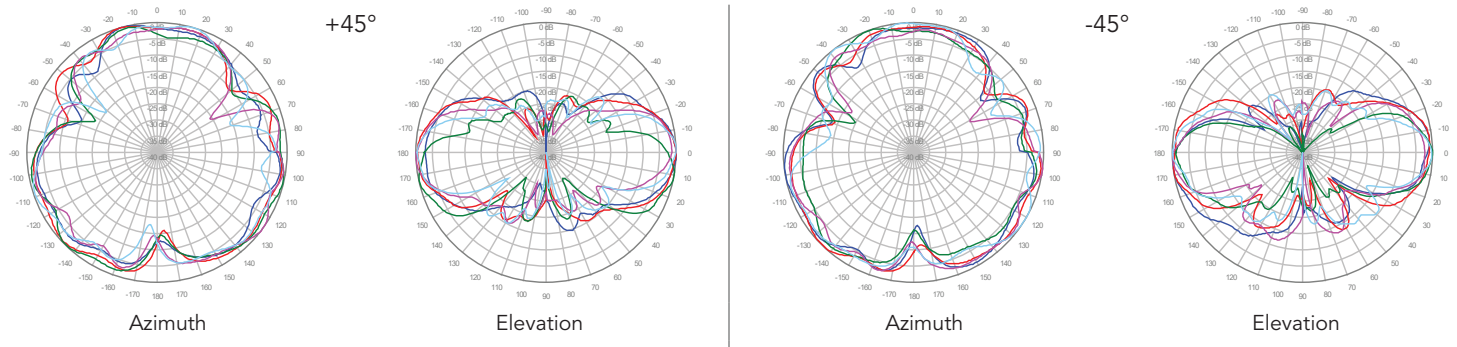
■ Y1, 2° TILT



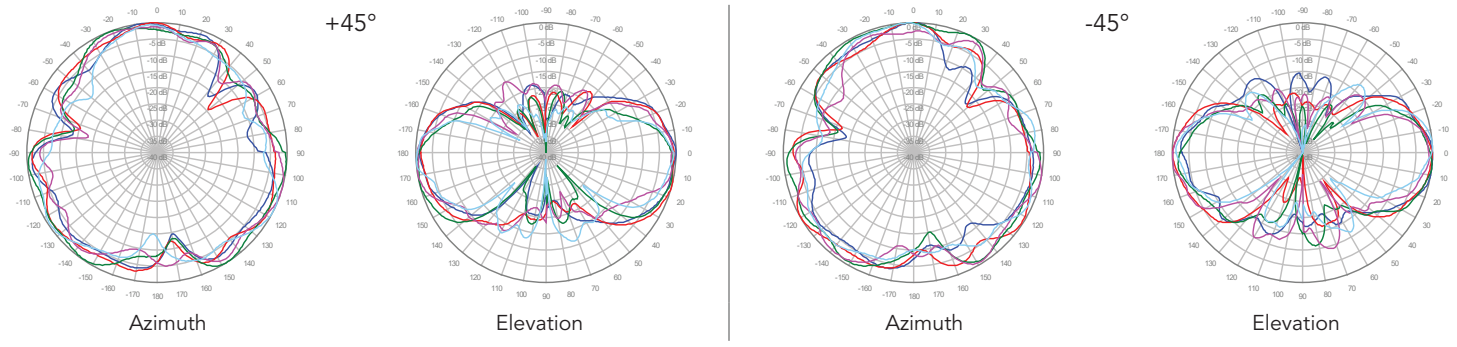
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT



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OMNI

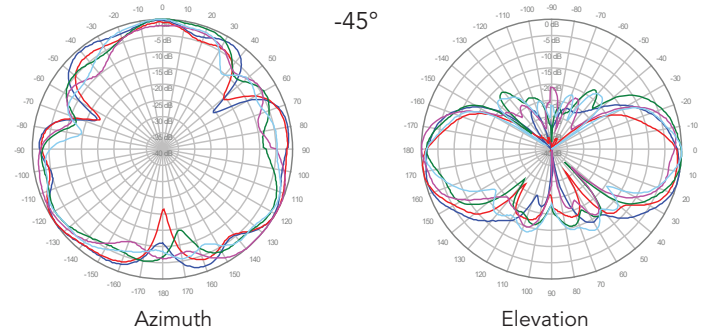
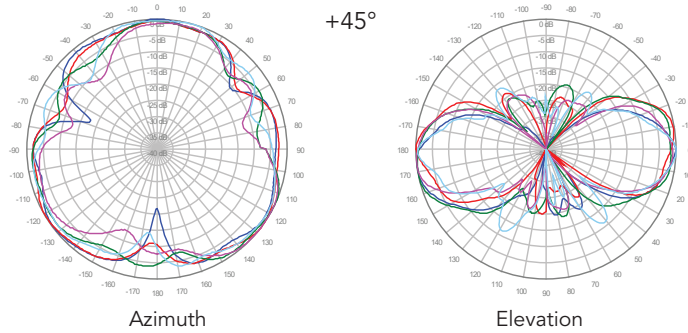
23.9 IN

FIXED TILT

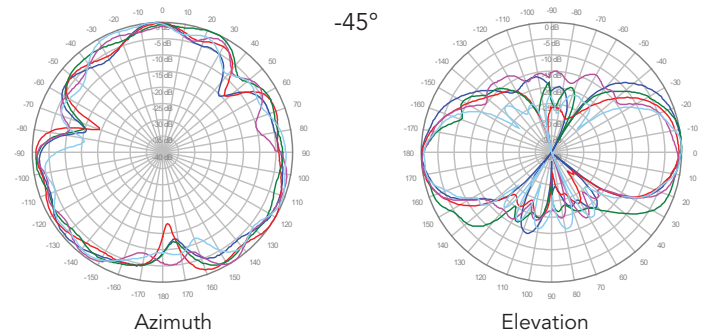
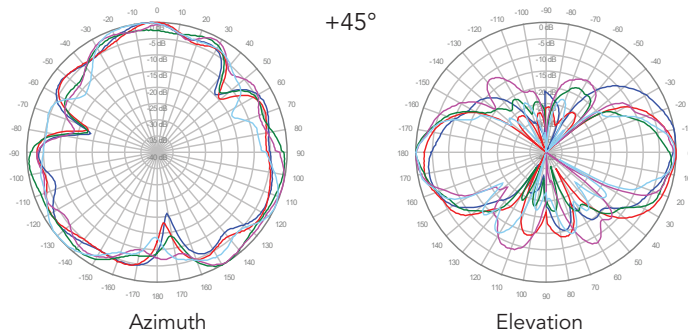
2L6U4VT360X06Fwxys4

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

■ Y5, 2° TILT



■ Y6, 2° TILT

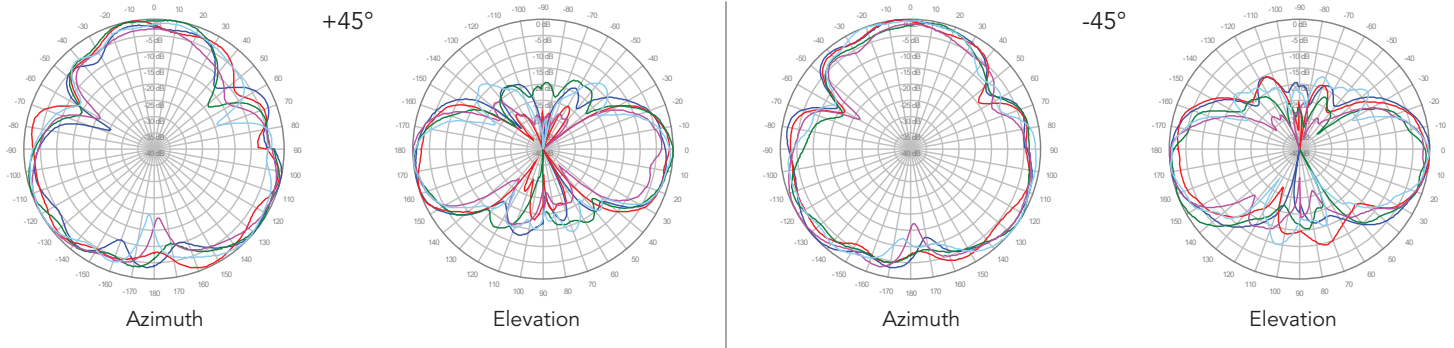




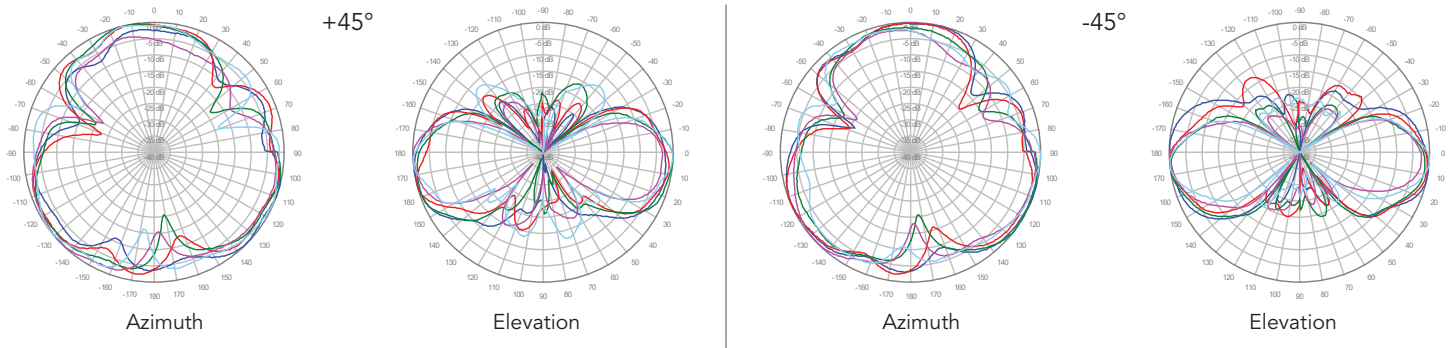
## 2L6U4VT360X06FwxyS4

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

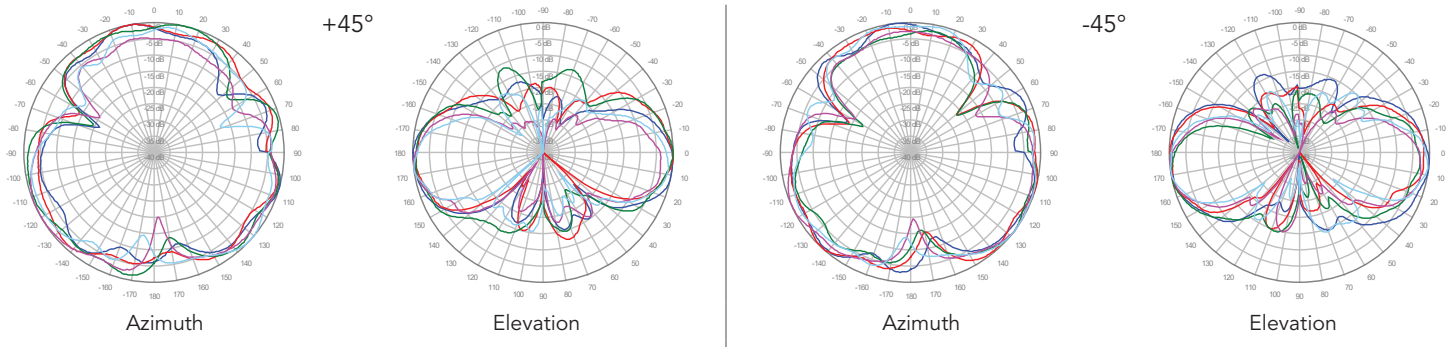
### Y1, 4° TILT



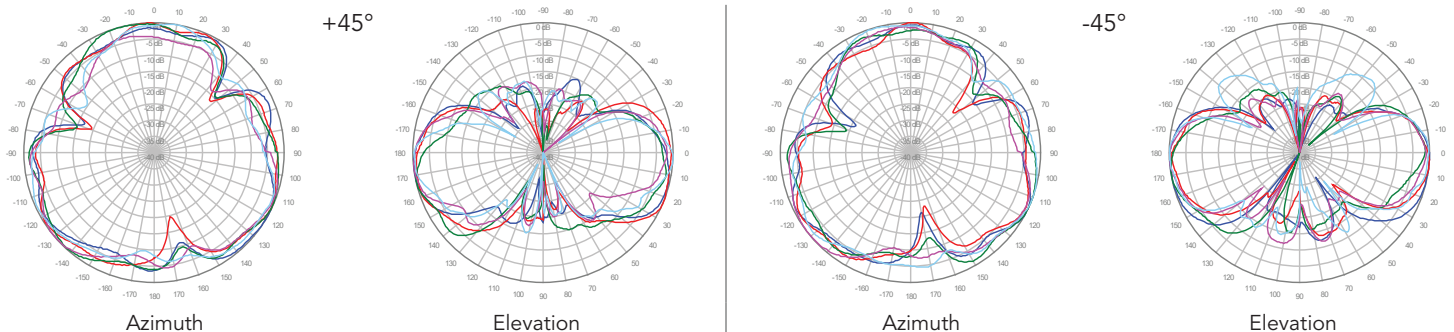
### Y2, 4° TILT



### Y3, 4° TILT



### Y4, 4° TILT



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OMNI

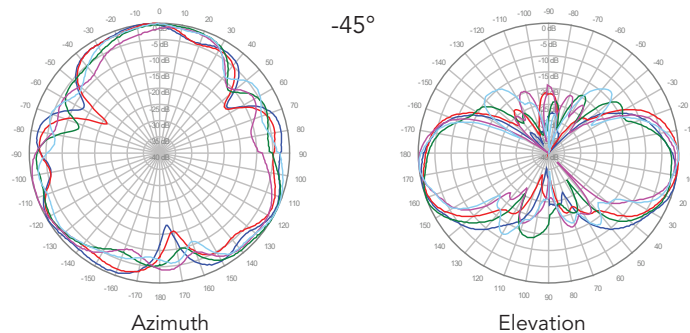
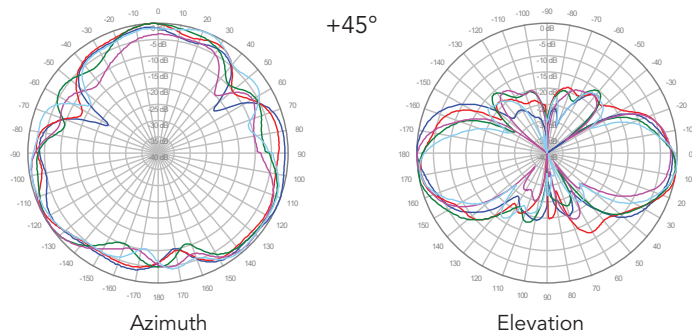
23.9 IN

FIXED TILT

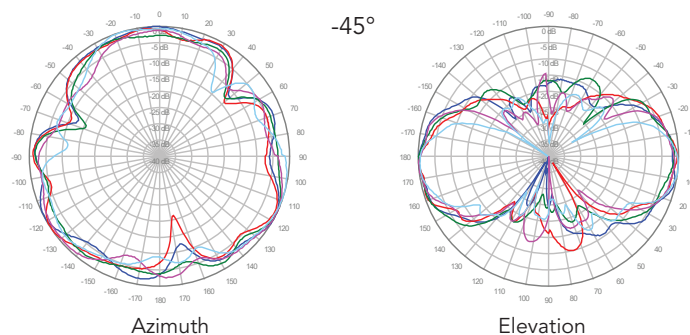
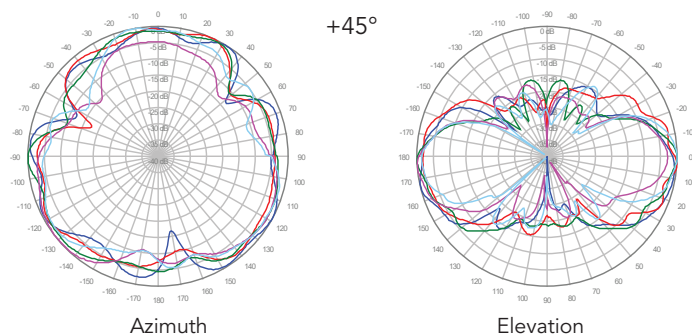
2L6U4VT360X06Fwxy<sub>s</sub>4

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

■ Y5, 4° TILT



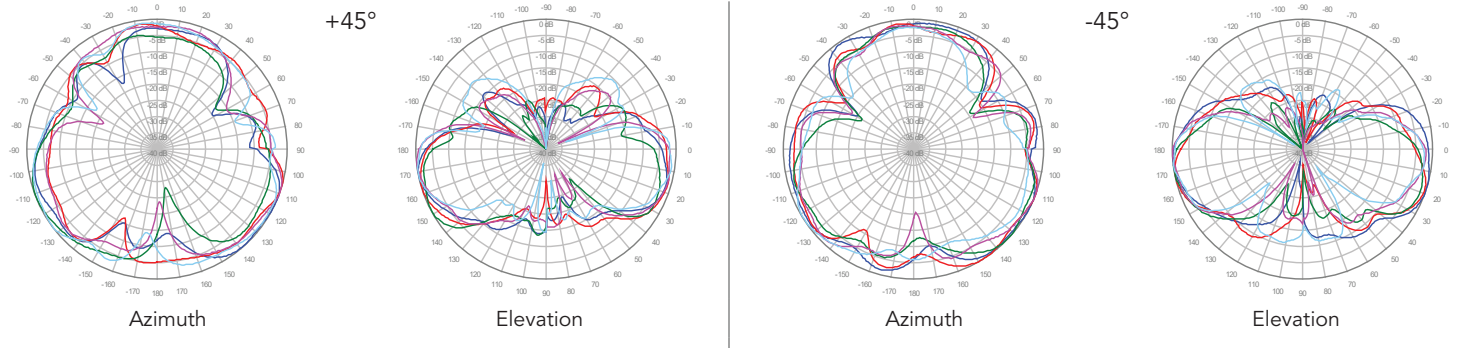
■ Y6, 4° TILT



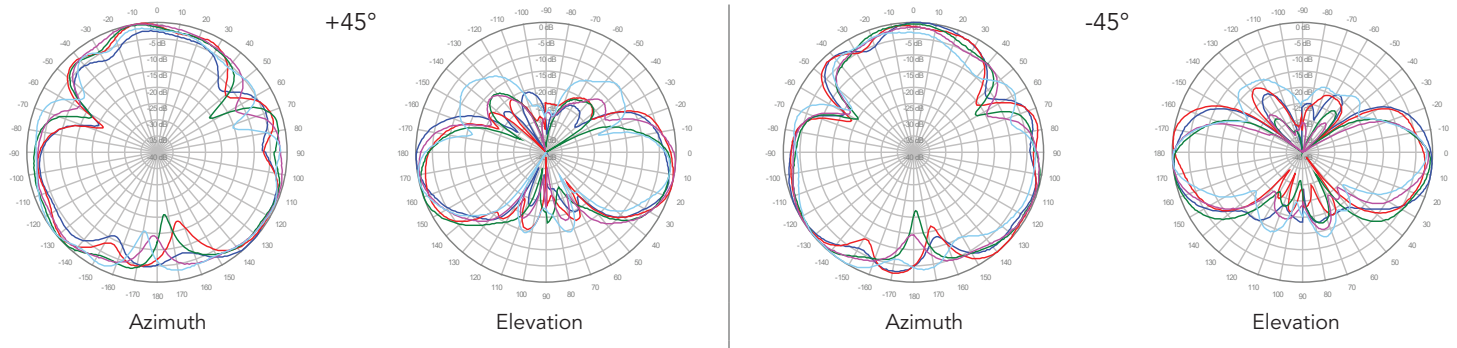
2L6U4VT360X06Fwxyys4

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

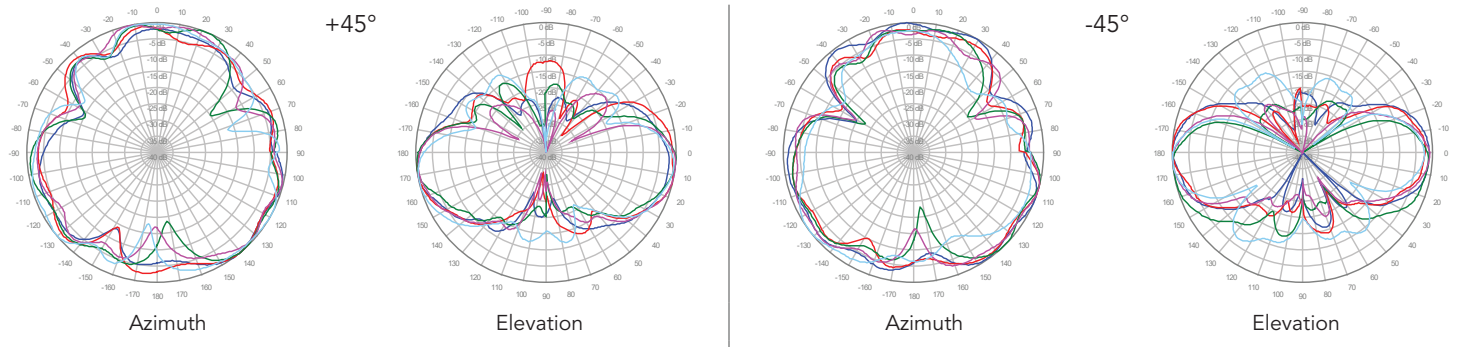
■ Y1, 6° TILT



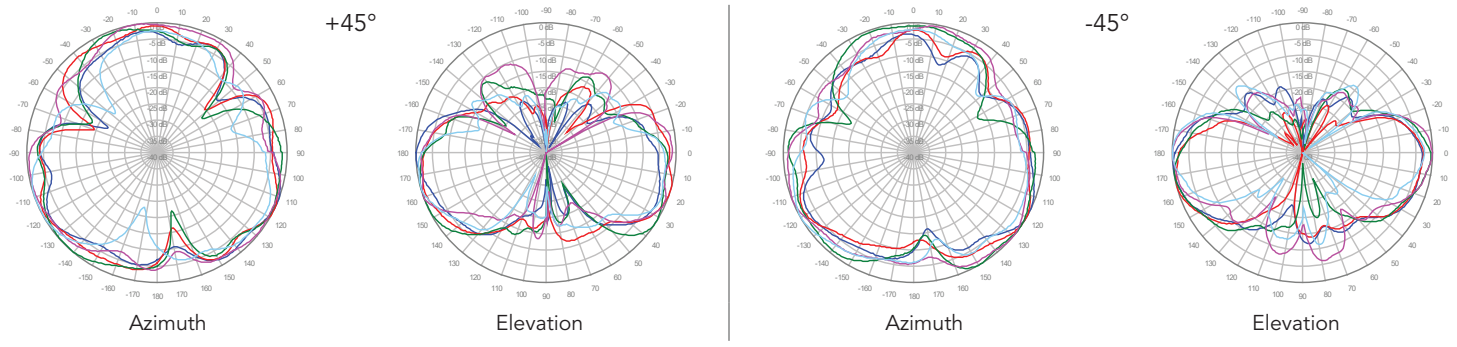
■ Y2, 6° TILT



■ Y3, 6° TILT



■ Y4, 6° TILT



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OMNI

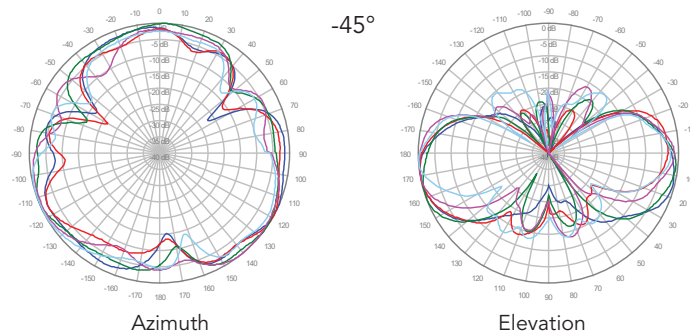
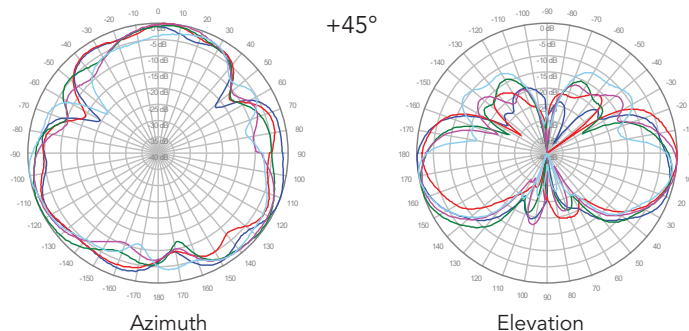
23.9 IN

FIXED TILT

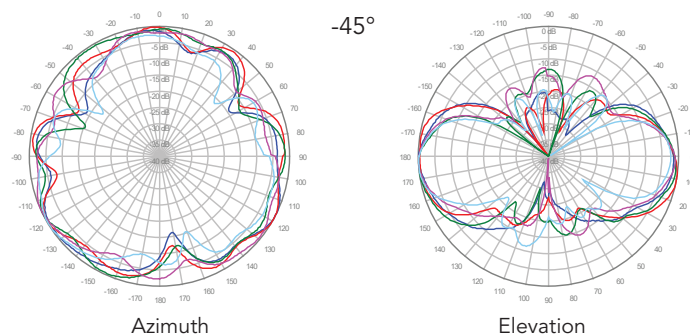
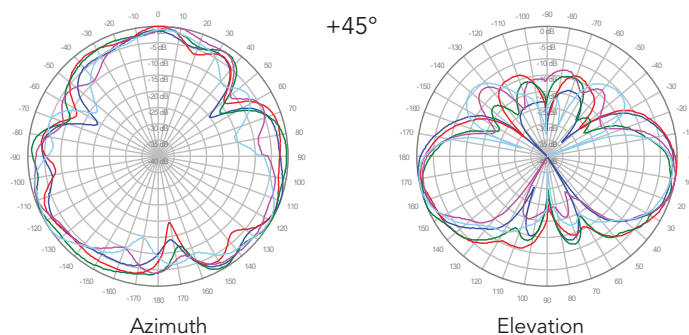
2L6U4VT360X06Fwxys4

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

■ Y5, 6° TILT



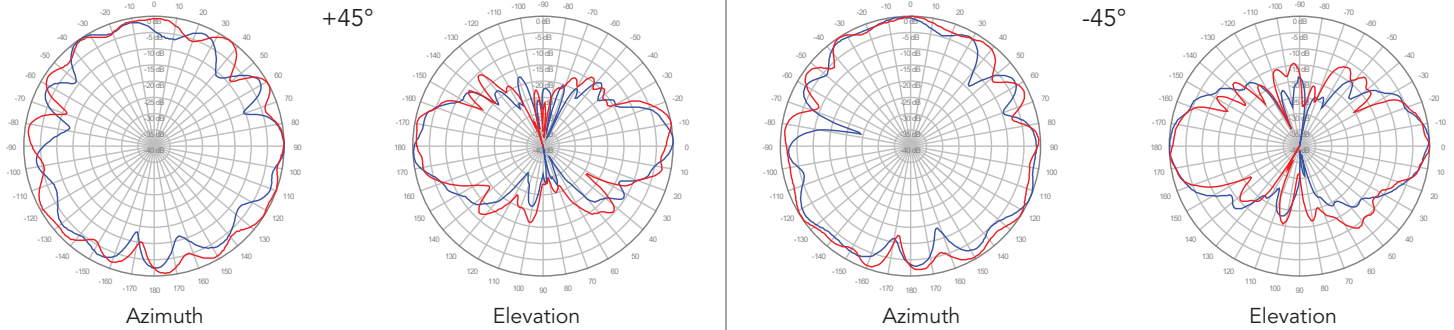
■ Y6, 6° TILT



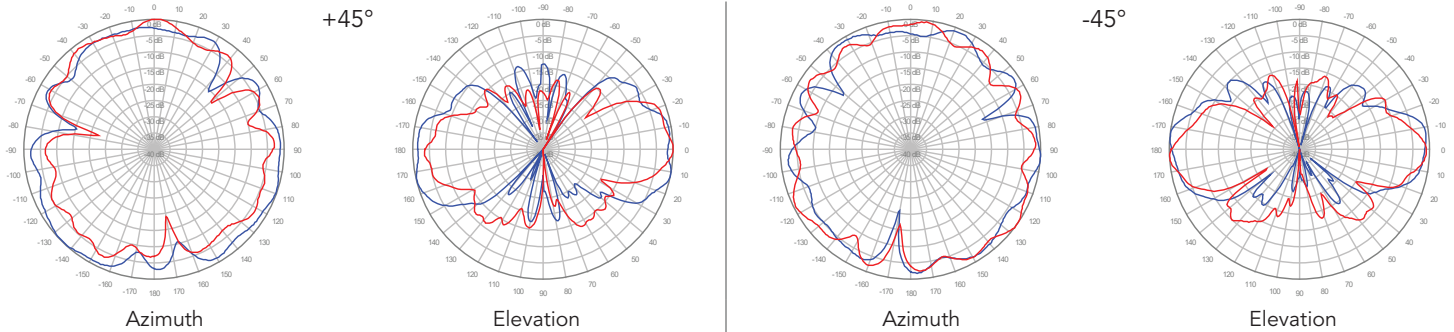
2L6U4VT360X06FwxyS4

3600 MHz ————  
4000 MHz ————

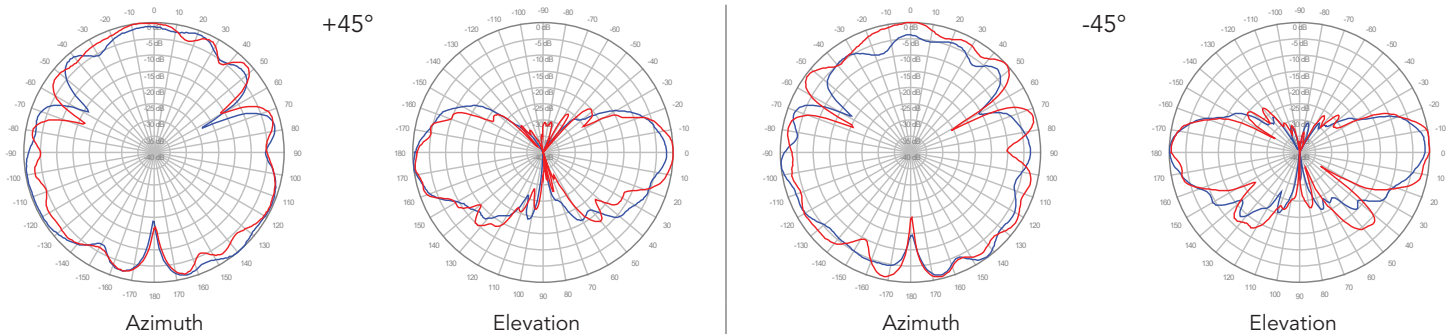
■ P1, 0° TILT



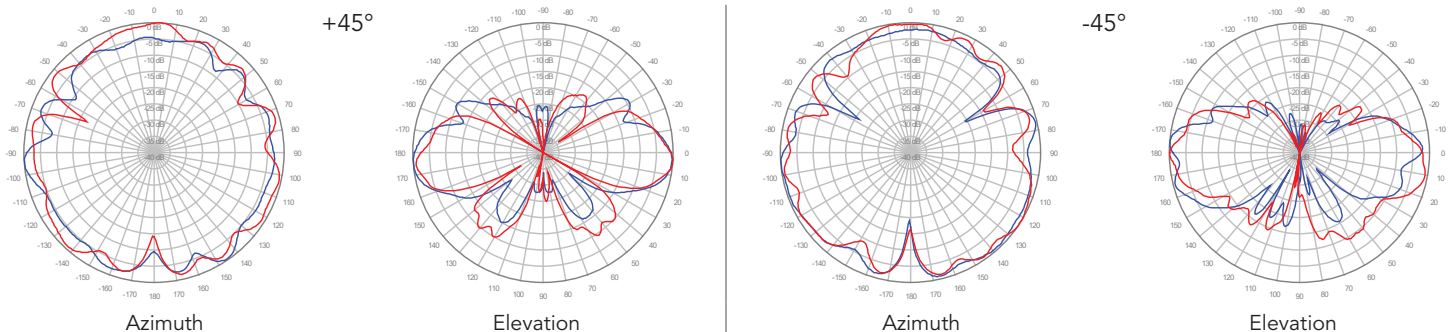
■ P2, 0° TILT



■ P3, 0° TILT



■ P4, 0° TILT



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