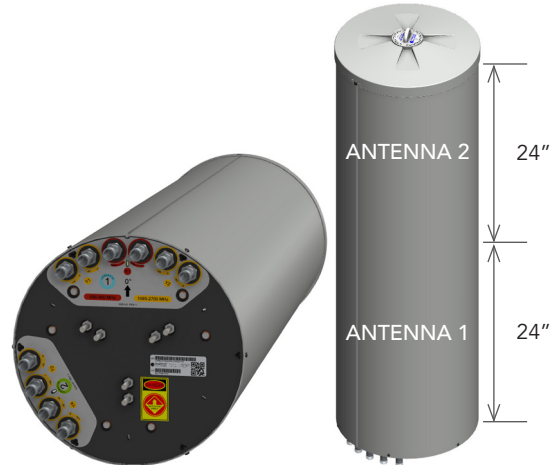


C4UT360X12F_{xys}4

Features

- Pseudo omni configuration with 10 connectors
- Dual antennas integrated under a single radome
- An ideal choice for site sharing - can be ordered with unique tilt combinations for Y1/Y2 and Y3/Y4 mid bands
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- Available for order with a grey, brown or black radome



| | | | | |
|----------------------|--|----------------------------------|----------------|----------------|
| PRODUCT OVERVIEW | Frequency Range (MHz) | (1x) 696-960 | (2x) 1695-2700 | (2x) 1695-2700 |
| | Array | ■ R1 | ■ Y1, ■ Y2 | ■ Y3, ■ Y4 |
| | Connector | 2 PORTS | 4 PORTS | 4 PORTS |
| | Polarization | XPOL | XPOL | XPOL |
| | Azimuth Beamwidth (avg) | 360° | 360° | 360° |
| | Electrical Downtilt | 0° | 2°, 4°, 6° | 2°, 4°, 6° |
| | Configuration | OMNI CONFIGURATION | | |
| | Maximum Continuous Power Per Port @ 50° C (122° F) | 200 WATTS | 150 WATTS | 150 WATTS |
| | Maximum Total Continuous Power at 50° C (122° F) | 1600 WATTS | | |
| | Total Connector Count | 10 PORTS | | |
| | Connector Type | 4.3-10 FEMALE | | |
| | Dimensions | 1219 x Ø371 mm (48.0 x Ø14.6 in) | | |
| Radome Color Options | GREY, BROWN or BLACK | | | |

ELECTRICAL SPECIFICATIONS

■ R1

| | | | |
|---|-----------|--------------|--------------|
| Frequency Range | MHz | (1x) 696-960 | |
| Frequency Sub-Range | MHz | 696-806 | 806-960 |
| Polarization | --- | (1x) ±45° | |
| Gain | BASTA | dBi | 8.6 ± 0.9 |
| | MAX | dBi | 9.5 |
| Azimuth Beamwidth (3 dB) | degrees | 360° | |
| Elevation Beamwidth (3 dB) | degrees | 20.9° ± 1.3° | 18.0° ± 1.8° |
| Electrical Downtilt | degrees | 0° | |
| Impedance | Ohms | 50Ω | |
| VSWR | --- | ≤ 1.5:1 | |
| Passive Intermodulation 3rd Order for 2x20 W Carriers | dBc | < -153 | |
| Upper Sidelobe Suppression | dB | > 14 | > 11 |
| Isolation | Intraband | dB | > 25 |
| | Interband | dB | > 30 |

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C4UT360X12F_{xys}4

ELECTRICAL SPECIFICATIONS

■ Y1 ■ Y2

| | | | | | | |
|--|-----------|----------------|-------------------------------------|-------------|-------------|------------|
| Frequency Range | MHz | (2x) 1695-2700 | | | | |
| Frequency Sub-Range | MHz | 1695-1880 | 1850-1990 | 1920-2200 | 2300-2700 | |
| Polarization | --- | (2x) ±45° | | | | |
| Gain | BASTA | dBi | 12.0 ± 0.7 | 11.7 ± 0.7 | 10.9 ± 0.8 | 10.1 ± 2.4 |
| | MAX | dBi | 12.7 | 12.4 | 11.7 | 12.5 |
| Azimuth Beamwidth (3 dB) | degrees | 360° | 360° | 360° | 360° | |
| Elevation Beamwidth (3 dB) | degrees | 9.4° ± 0.7° | 9.5° ± 0.4° | 9.4° ± 0.5° | 9.1° ± 2.4° | |
| Electrical Downtilt | degrees | (x) 2°, 4°, 6° | | | | |
| Impedance | Ohms | 50Ω | | | | |
| VSWR | --- | ≤ 1.5:1 | | | | |
| Passive Intermodulation 3rd Order for 2x20 W Carriers | dBc | < -153 | | | | |
| Upper Sidelobe Suppression | dB | > 13 | > 12 | > 11 | > 11 | |
| Isolation | Intraband | dB | > 25 | | | |
| | Interband | dB | > 28 same band; > 30 different band | | | |

ELECTRICAL SPECIFICATIONS

■ Y3 ■ Y4

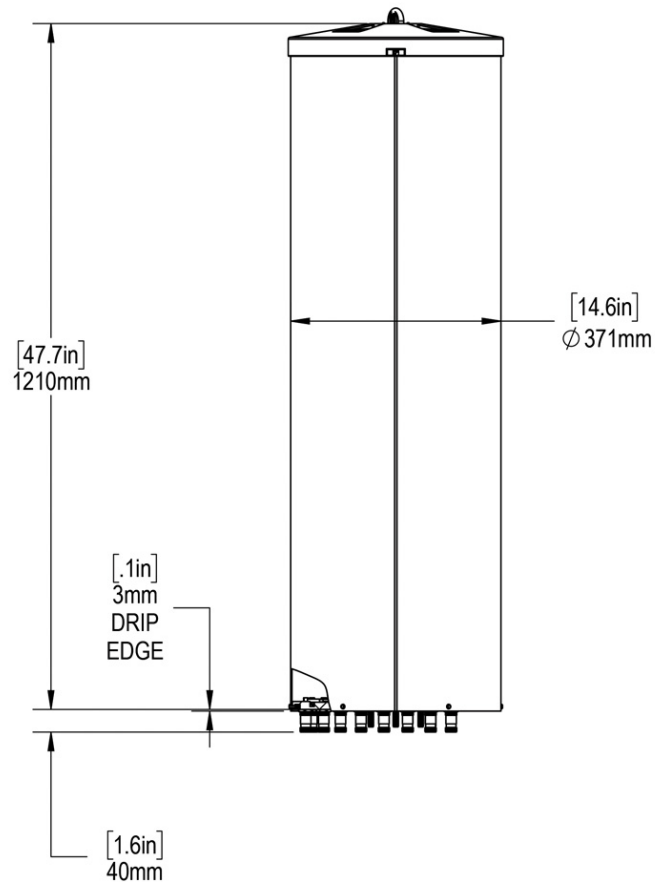
| | | | | | | |
|--|-----------|----------------|-------------------------------------|--------------|--------------|-----------|
| Frequency Range | MHz | (2x) 1695-2700 | | | | |
| Frequency Sub-Range | MHz | 1695-1880 | 1850-1990 | 1920-2200 | 2300-2700 | |
| Polarization | --- | (2x) ±45° | | | | |
| Gain | BASTA | dBi | 9.5 ± 0.8 | 9.5 ± 0.8 | 9.5 ± 0.8 | 9.5 ± 0.8 |
| | MAX | dBi | 10.3 | 10.3 | 10.3 | 10.3 |
| Azimuth Beamwidth (3 dB) | degrees | 360° | 360° | 360° | 360° | |
| Elevation Beamwidth (3 dB) | degrees | 19.0° ± 2.0° | 19.0° ± 2.0° | 19.0° ± 2.0° | 19.0° ± 2.0° | |
| Electrical Downtilt | degrees | (y) 2°, 4°, 6° | | | | |
| Impedance | Ohms | 50Ω | | | | |
| VSWR | --- | ≤ 1.5:1 | | | | |
| Passive Intermodulation 3rd Order for 2x20 W Carriers | dBc | < -153 | | | | |
| Upper Sidelobe Suppression | dB | > 13 | | | | |
| Isolation | Intraband | dB | > 25 | | | |
| | Interband | dB | > 28 same band; > 30 different band | | | |

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C4UT360X12F_{xy}s4

MECHANICAL SPECIFICATIONS

| | | | |
|---------------------------------------|-------------|-----------------------------------|---|
| Antenna | Height | mm (in) | 1219 (48.0) |
| | Diameter | mm (in) | 371 (14.6) |
| Net Weight - Antenna Only | | kg (lbs) | 15.9 (35) |
| Windload | Calculation | km/h (mph) | 160 (100) |
| | Frontal | N (lbf) | 391 (88) |
| Survival Wind Speed | | km/h (mph) | 241 (150) |
| Wind Area | | m ² (ft ²) | 0.47 (5.0) |
| Volume | | m ³ (ft ³) | 0.13 (4.7) |
| Connector | Type | --- | 4.3-10 Female |
| | Quantity | --- | 10 |
| | Position | --- | Bottom |
| Radome Color | | --- | Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011) |
| Lightning Protection (Grounding Type) | | --- | Direct Ground |

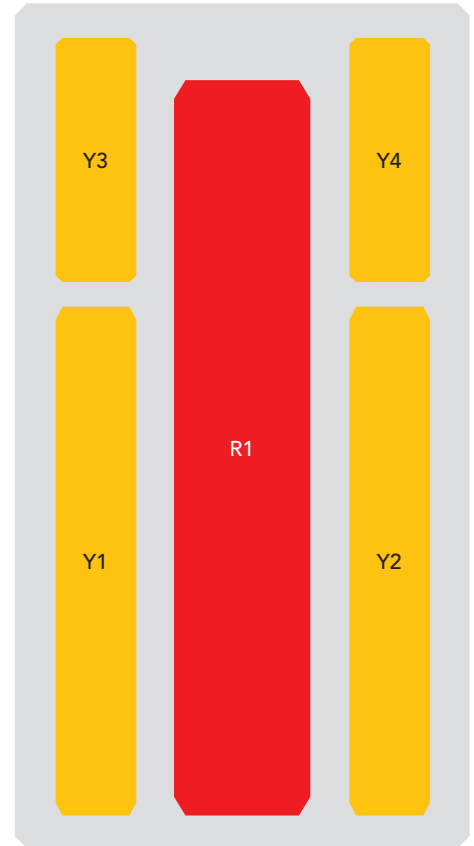


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C4UT360X12F_{xy}s4

ARRAY LAYOUT Topology

| FREQUENCY | ARRAY | CONNECTOR | CONNECTOR TYPE |
|---------------|--|-----------|--------------------|
| 696-960 MHz | ■ R1 | 1-2 | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y1 | 3-4 | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y2 | 5-6 | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y3 | 7-8 | (2x) 4.3-10 Female |
| 1695-2700 MHz | ■ Y4 | 9-10 | (2x) 4.3-10 Female |

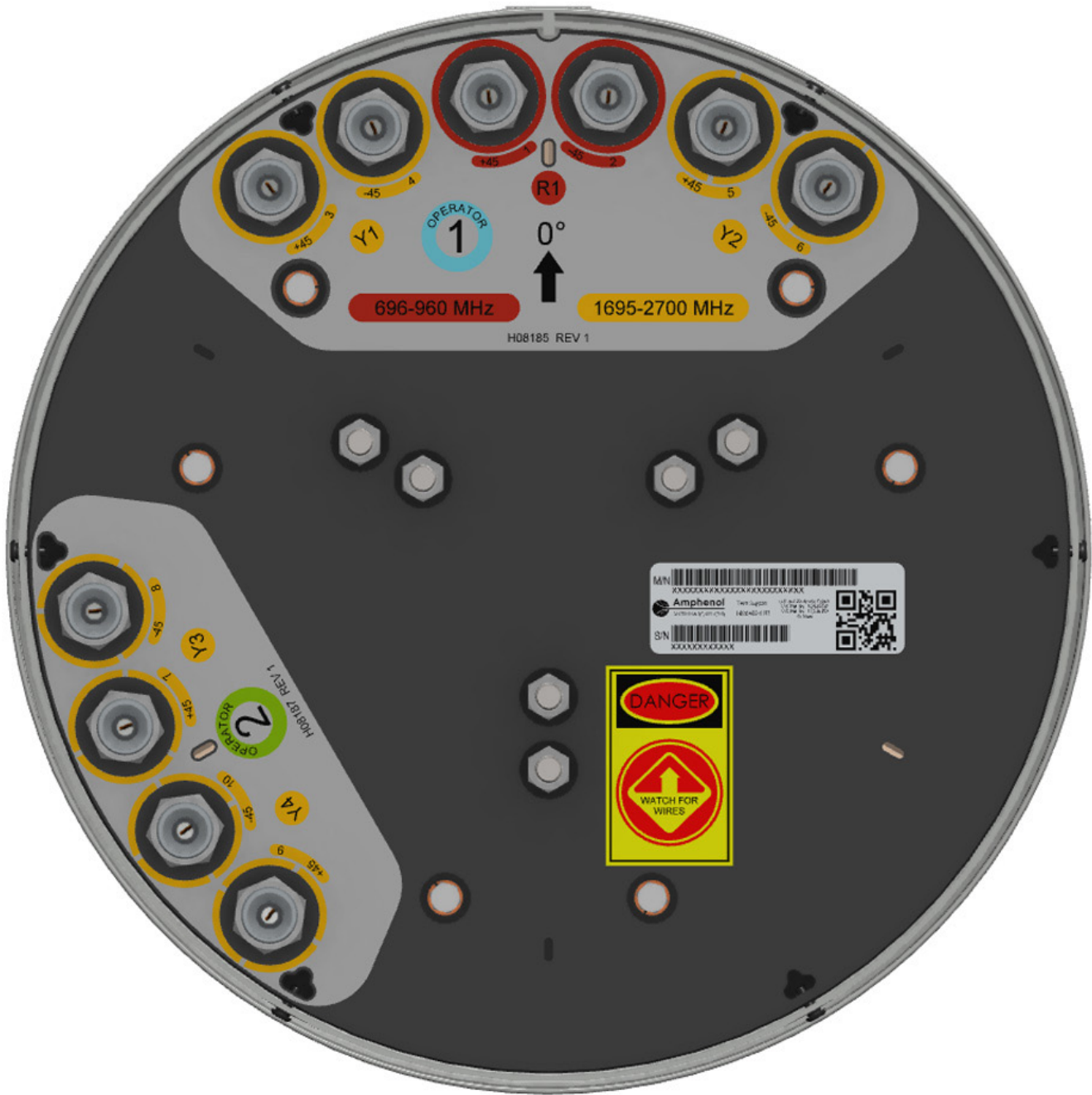


The illustration is not shown to scale.

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C4UT360X12F_{xy}s4

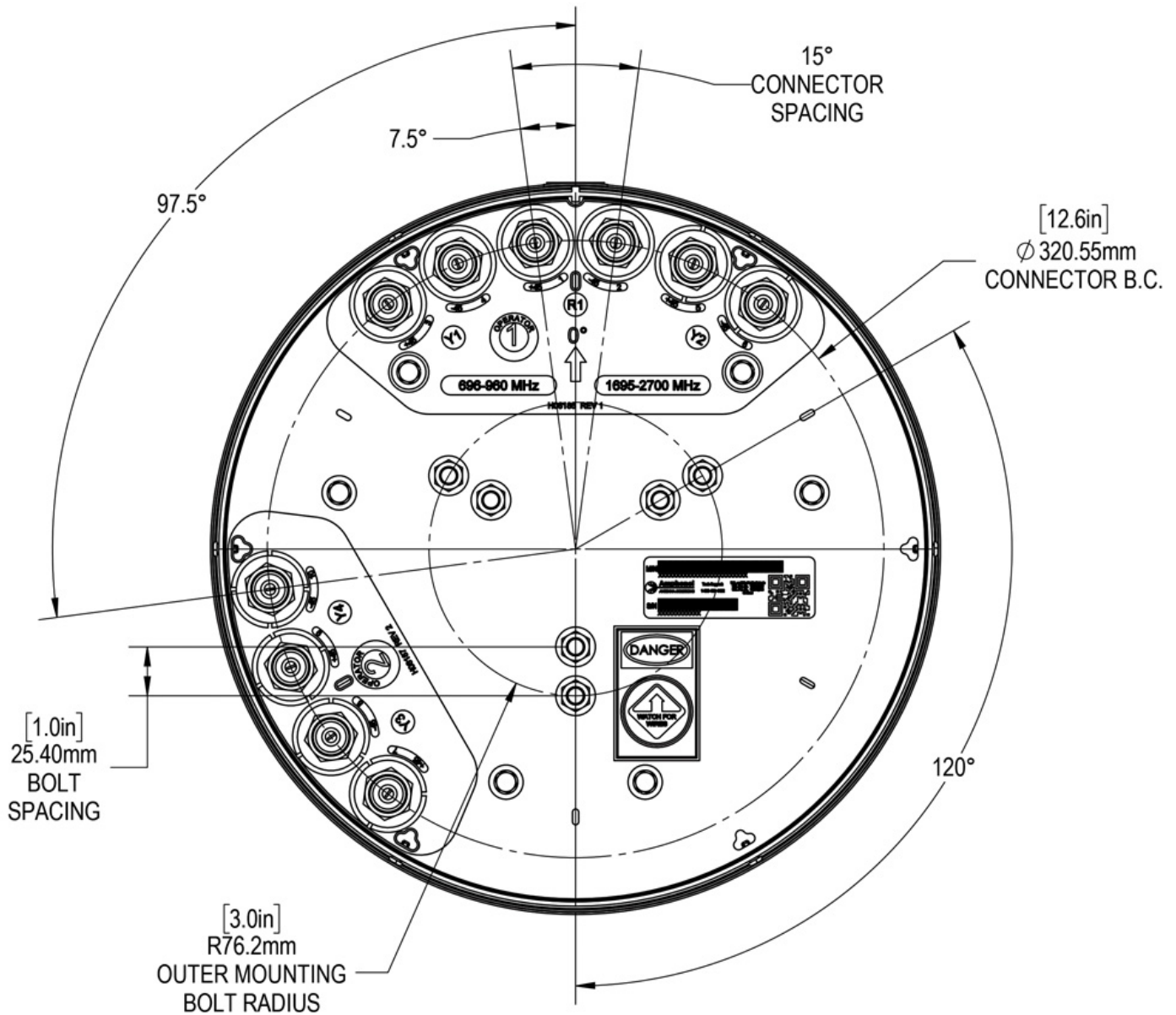
BOTTOM VIEW - LABELING



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C4UT360X12F_{xys}4

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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C4UT360X12F_{xy}s4

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

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C4UT360X12F_{xy}s₄

HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

| NUMBER OF BANDS and OPERATING FREQUENCY | | PATTERN TYPE | AZIMUTH BMWIDTH | POLARIZATION | LENGTH | TILT TYPE | TILT OPTIONS | CONNECTOR TYPE | VARIATION | RADOME COLOR OPTIONS |
|---|-------------------|--------------|-----------------|--------------|---------------|---------------|--|---------------------|--|--|
| C | 4U | T | 360 | X | 12 | F | xy | s | 4 | BK BR |
| (1x) 696-960 | (4x) 1695-2700 | Tri-Sector | 360° Omni | XPOL | 1.2 meters | Fixed Tilt | These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options. | 4.3-10 Connector | 4th generation enhanced mechanical package | BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome. |

ORDERING OPTIONS

Select from the following ordering options

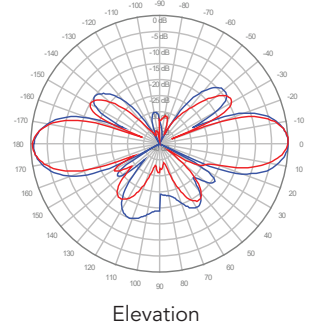
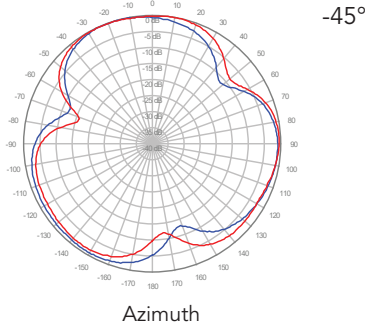
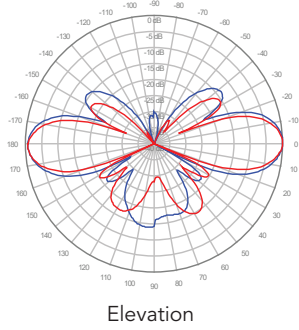
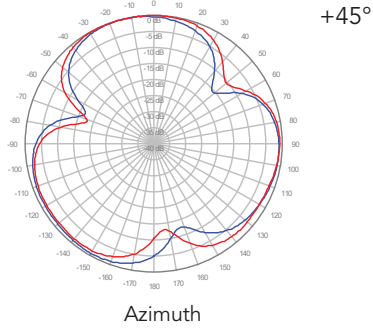
| SELECT RADOME COLOR | SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND | | | ORDER MODEL NUMBER |
|------------------------|--|-----------------------|-----------------------|--------------------|
| | 696-960 MHz | 1695-2700 MHz Y1 & Y2 | 1695-2700 MHz Y3 & Y4 | |
| Grey Pantone 420 C | 0° | 2° | 2° | C4UT360X12F22s4 |
| | 0° | 2° | 4° | C4UT360X12F24s4 |
| | 0° | 2° | 6° | C4UT360X12F26s4 |
| | 0° | 4° | 2° | C4UT360X12F42s4 |
| | 0° | 4° | 4° | C4UT360X12F44s4 |
| | 0° | 4° | 6° | C4UT360X12F46s4 |
| | 0° | 6° | 2° | C4UT360X12F62s4 |
| | 0° | 6° | 4° | C4UT360X12F64s4 |
| Brown Pantone 476 C | 0° | 6° | 6° | C4UT360X12F66s4 |
| | 0° | 2° | 2° | C4UT360X12F22s4BR |
| | 0° | 2° | 4° | C4UT360X12F24s4BR |
| | 0° | 2° | 6° | C4UT360X12F26s4BR |
| | 0° | 4° | 2° | C4UT360X12F42s4BR |
| | 0° | 4° | 4° | C4UT360X12F44s4BR |
| | 0° | 4° | 6° | C4UT360X12F46s4BR |
| | 0° | 6° | 2° | C4UT360X12F62s4BR |
| Black RAL 9011 | 0° | 6° | 4° | C4UT360X12F64s4BR |
| | 0° | 6° | 6° | C4UT360X12F66s4BR |
| | 0° | 2° | 2° | C4UT360X12F22s4BK |
| | 0° | 2° | 4° | C4UT360X12F24s4BK |
| | 0° | 2° | 6° | C4UT360X12F26s4BK |
| | 0° | 4° | 2° | C4UT360X12F42s4BK |
| | 0° | 4° | 4° | C4UT360X12F44s4BK |
| | 0° | 4° | 6° | C4UT360X12F46s4BK |
| | 0° | 6° | 2° | C4UT360X12F62s4BK |
| | 0° | 6° | 4° | C4UT360X12F64s4BK |
| | 0° | 6° | 6° | C4UT360X12F66s4BK |

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750 MHz ————
850 MHz ————

C4UT360X12F_{xys4}

■ R1, 0° TILT

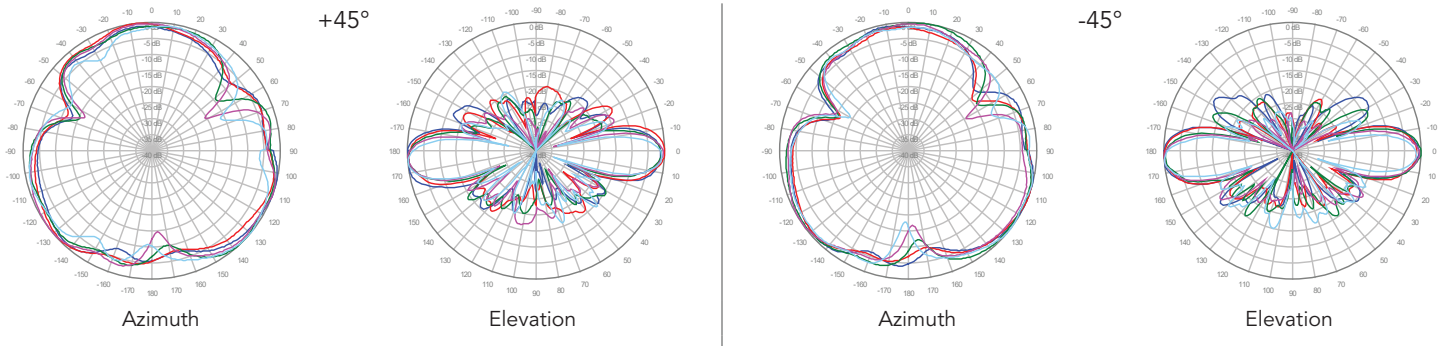


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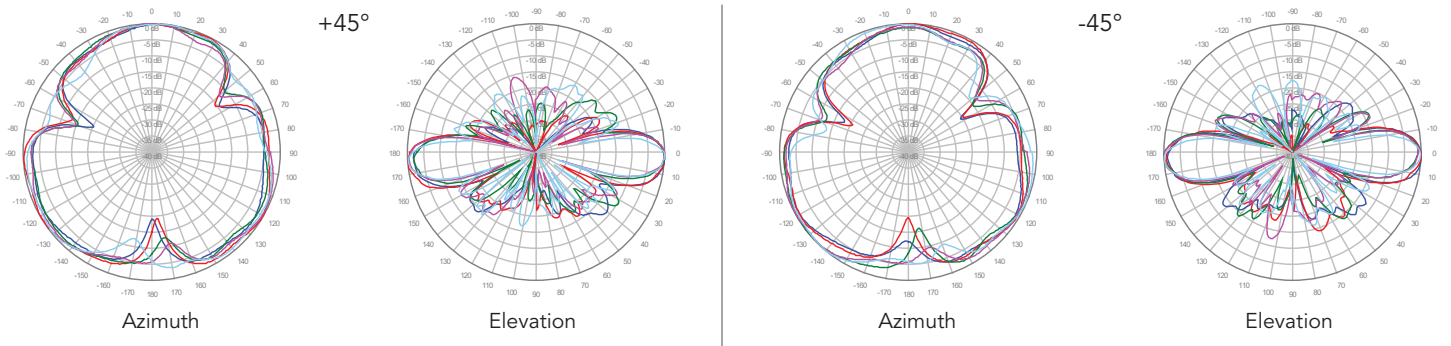
C4UT360X12F_{xy}s4

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

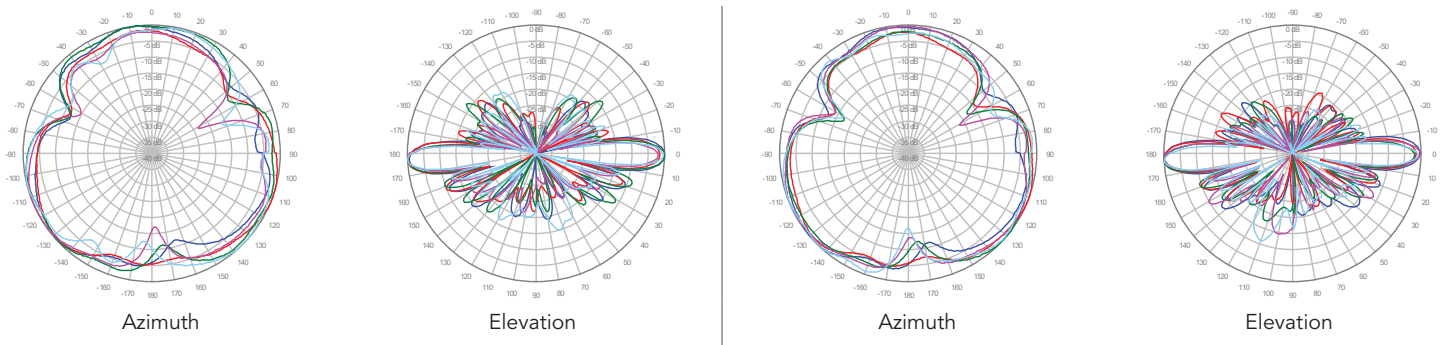
Y1, 2° TILT



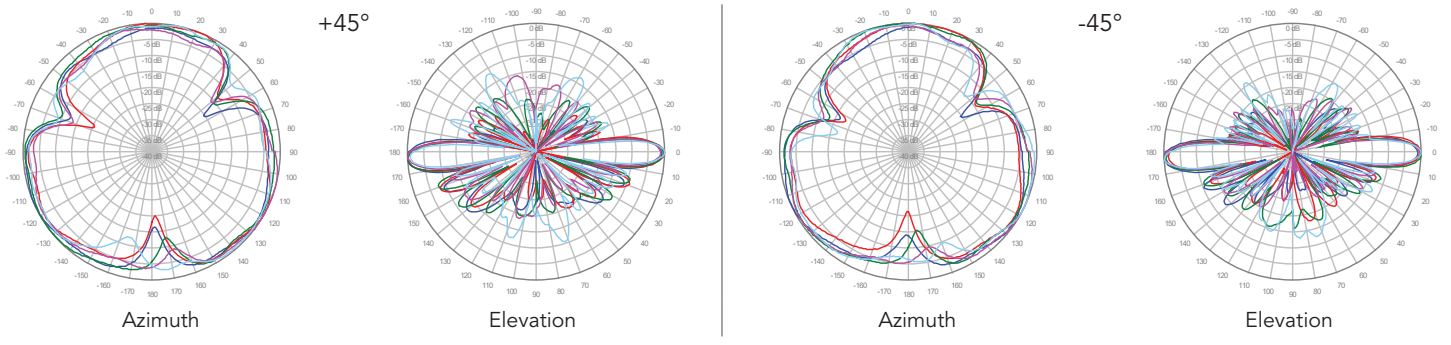
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT

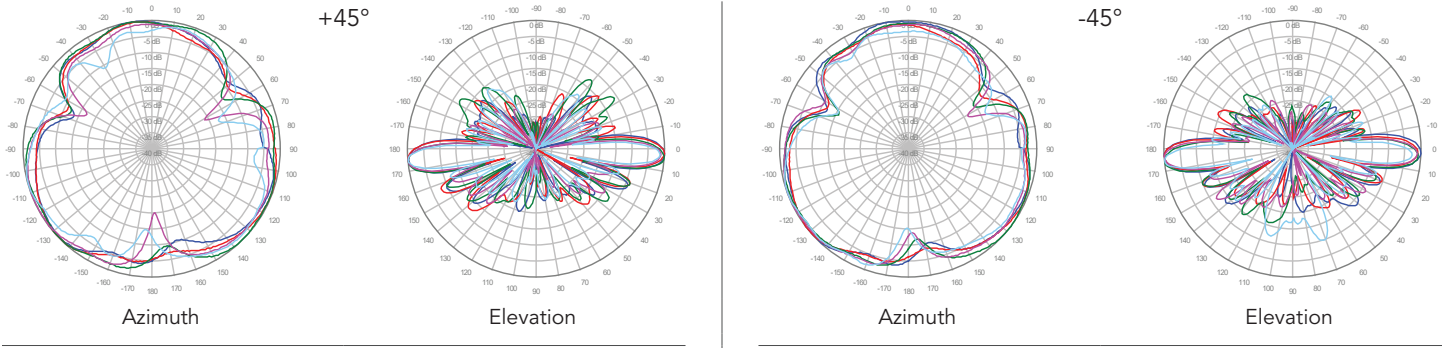


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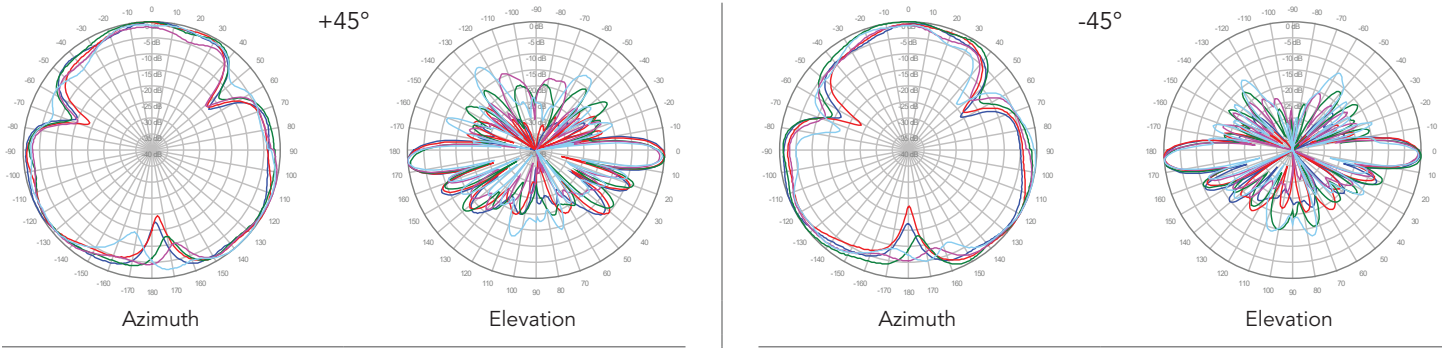
C4UT360X12F_{xys4}

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

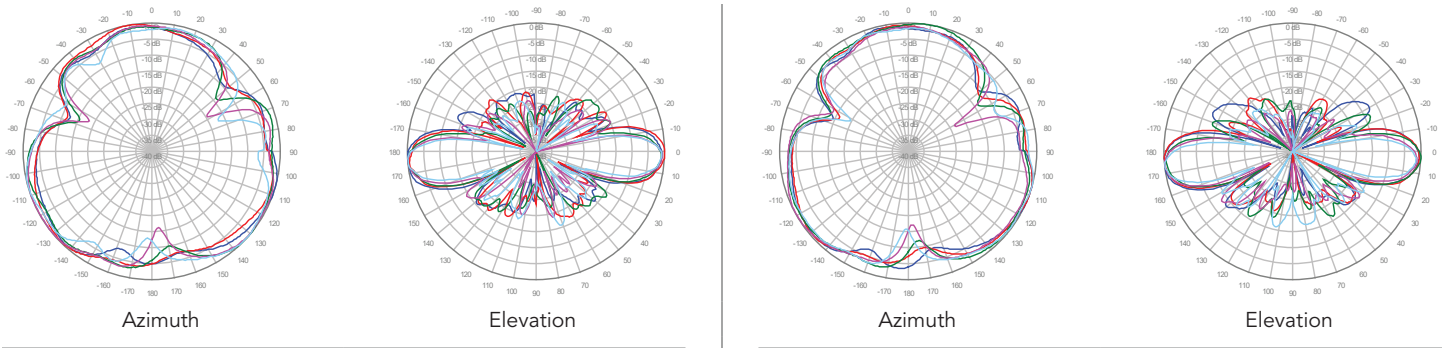
■ Y1, 4° TILT



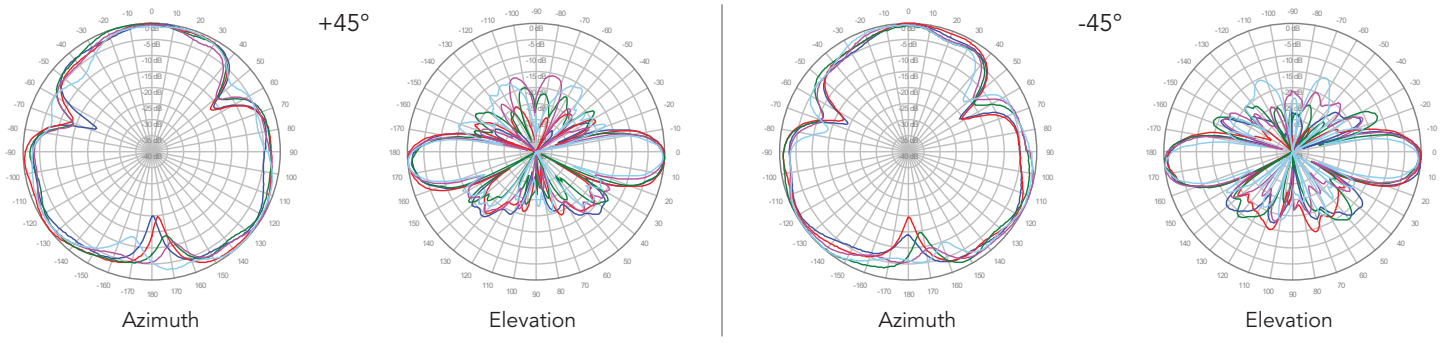
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT

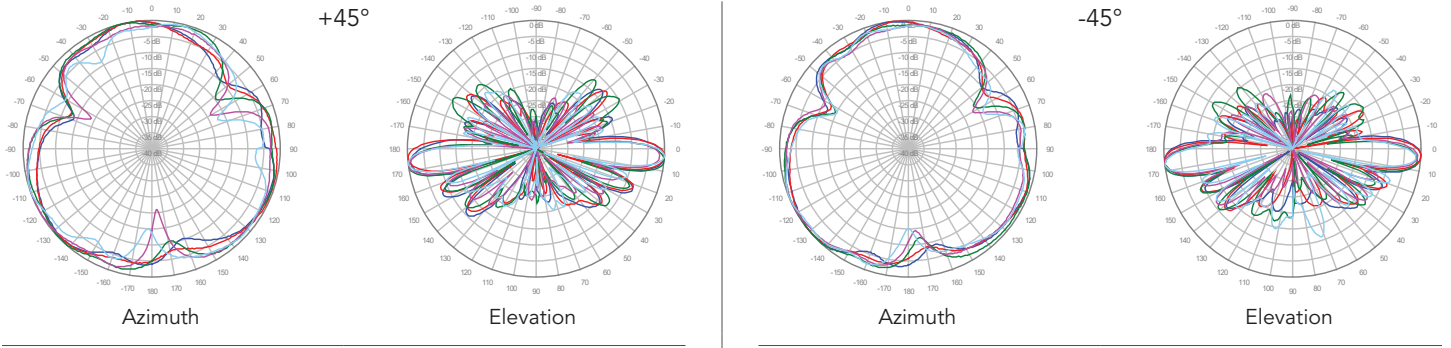


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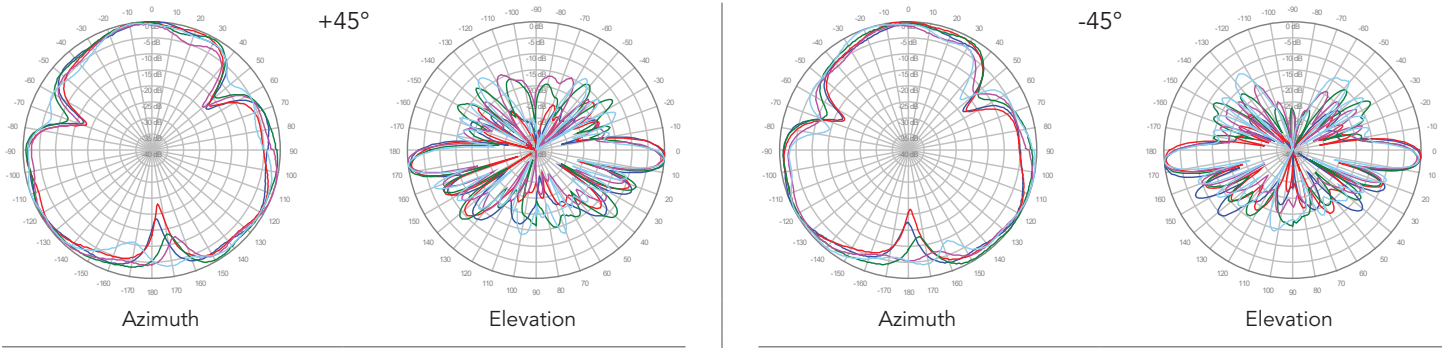
C4UT360X12F_{xys4}

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

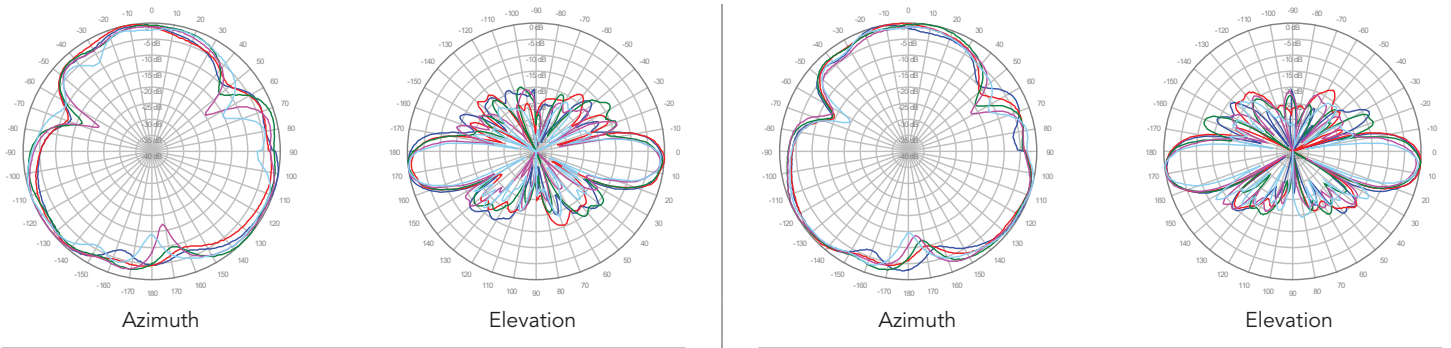
■ Y1, 6° TILT



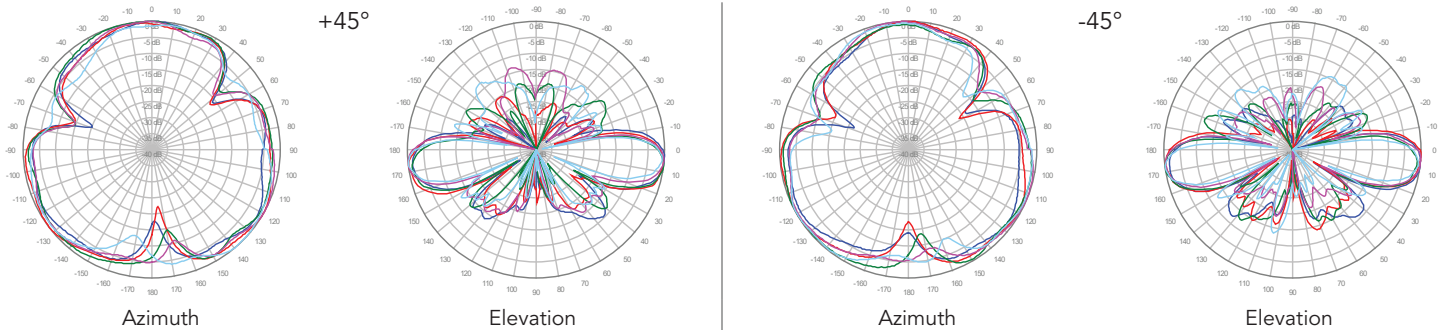
■ Y2, 6° TILT



■ Y3, 6° TILT



■ Y4, 6° TILT



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