

OCT454KBU105L

QUAD BAND | 8-PORT | WITH INTERNAL SMART BIAS-T | XXXX-POL | 45° / 45° / 45° / 45° | 13.5 / 14.8 / 17.8 / 17.8 DBI

Features

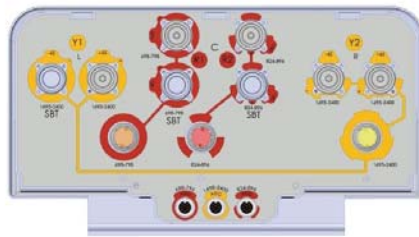
- Quad band, 8-port panel with variable electrical tilt
- Features three internal Smart Bias-T units
- Ultra-wideband frequency
- 4x4 MIMO high band compatible
- Independent lowband (R1 & R2) tilt and combined highband (Y1 & Y2) tilt



Connector Description

The antenna has eight (8) connectors located at the bottom.

Low Band #1	R1	696-798 MHz	Red Rings		(4x) 7/16-DIN Female
Low Band #2	R2	824-900 MHz			
High Band #1	Y1	1695-2400 MHz	Yellow Rings		(4x) 7/16-DIN Female
High Band #2	Y2	1695-2400 MHz			



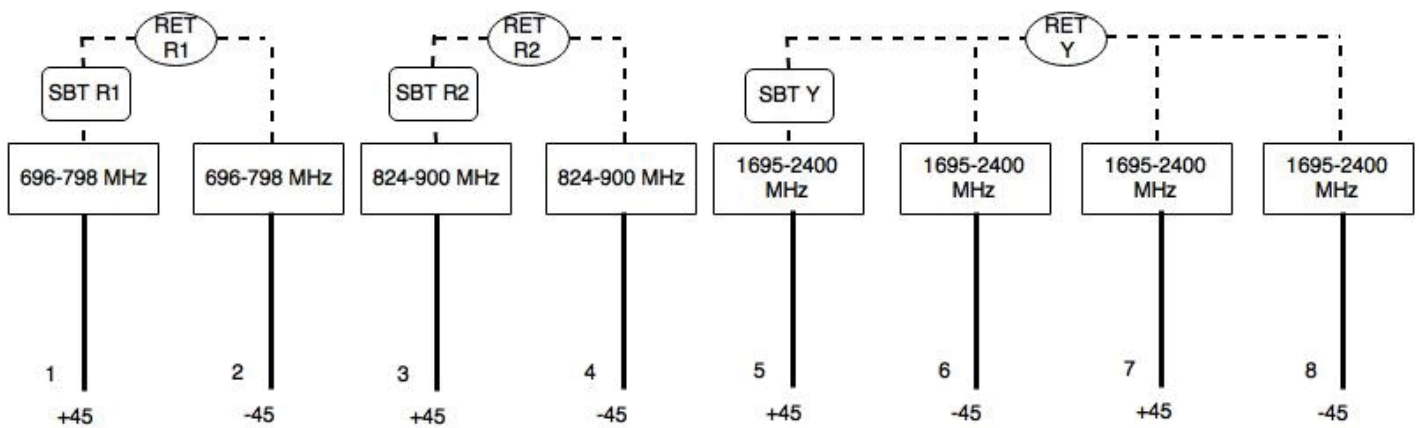
Electrical Characteristics	R1	R2	Y1 and Y2			
			(2x) 1695-2400 MHz			
Frequency Bands (MHz)	696-798	824-900	1695-1850	1850-1990	2100-2180	2200-2400
Polarization	±45°	±45°	(2x) ±45°			
Horizontal Beamwidth	48°	41°	50°	45°	43°	41°
Vertical Beamwidth	22.0°	18.2°	9.0°	8.5°	7.8°	6.9°
Gain	13.5 dBi	14.8 dBi	16.5 dBi	17.0 dBi	17.5 dBi	17.8 dBi
Electrical Downtilt	0-14°	0-14°	0-10°			
Impedance	50Ω	50Ω	50Ω			
VSWR	< 1.5:1	< 1.5:1	< 1.5:1			
Upper Sidelobe Suppression (Typical)	> 18 dB	> 18 dB	> 15 dB			
Front-to-Back Ratio	> 24 dB	> 24 dB	> 27 dB			
In-Band Isolation	> 25 dB	> 25 dB	> 28 dB			
Isolation Between Ports	> 30 dB	> 30 dB	> 30 dB			
IM3 (2x20W carrier)	< -153 dBc	< -153 dBc	< -153 dBc			
Input Power	(2x) 500 W	(2x) 500 W	(4x) 250 W			
Diplexed	No					
Lightning Protection	Direct Ground					
Operating Temperature	-40° to +60° C (-40° to +140° F)					

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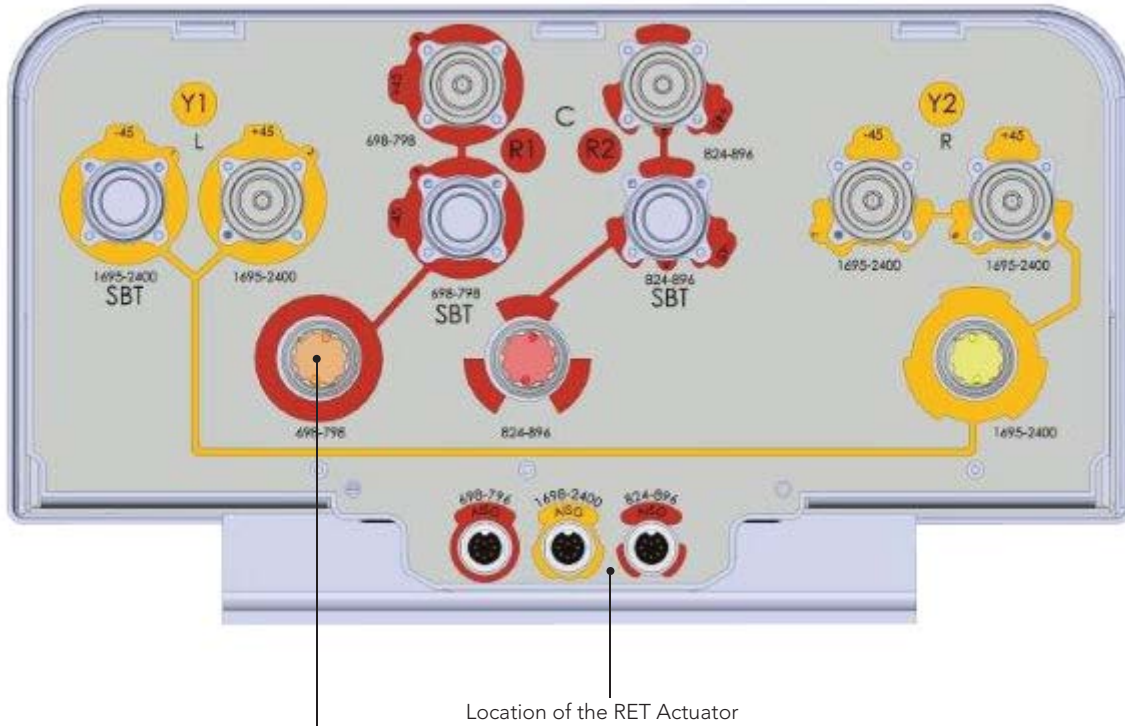
Mechanical Characteristics			
Dimensions (Length x Width x Depth)		1290 x 397 x 180 mm	50.8 x 15.6 x 7.1 in
Weight	Antenna Only	24.0 kg	53 lbs
	Antenna with Mounting & Downtilt Bracket Kit 36210006	28.1 kg	62 lbs
Survival Wind Speed		241 km/hr	150 mph
Wind Loads (160 km/hr or 100 mph)	Front	687 N	154 lbf
	Side	284 N	64 lbf
Electrical Downtilt Control			
Manual Electrical Tilt (MET) Control		A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector ring color. To access the knob, remove the cap by turning it counter-clockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna.	
Remote Electrical Tilt (RET) Control		For RET control, the transparent caps must be in place and locked. The tilt angle indicators always remain visible. Do not remove the transparent cap(s) from the antenna.	
RET Actuator			
Input Voltage		10-30 Vdc	
Power Consumption	Idle State	0.5 W (Maximum)	
	Normal Conditions	10.0 W (Maximum)	
Protocol		3GPP/AISG v2.0 (Single RET)	
RET Interface		(3x) 8-pin DIN Female	
Field Replaceable Unit		No	



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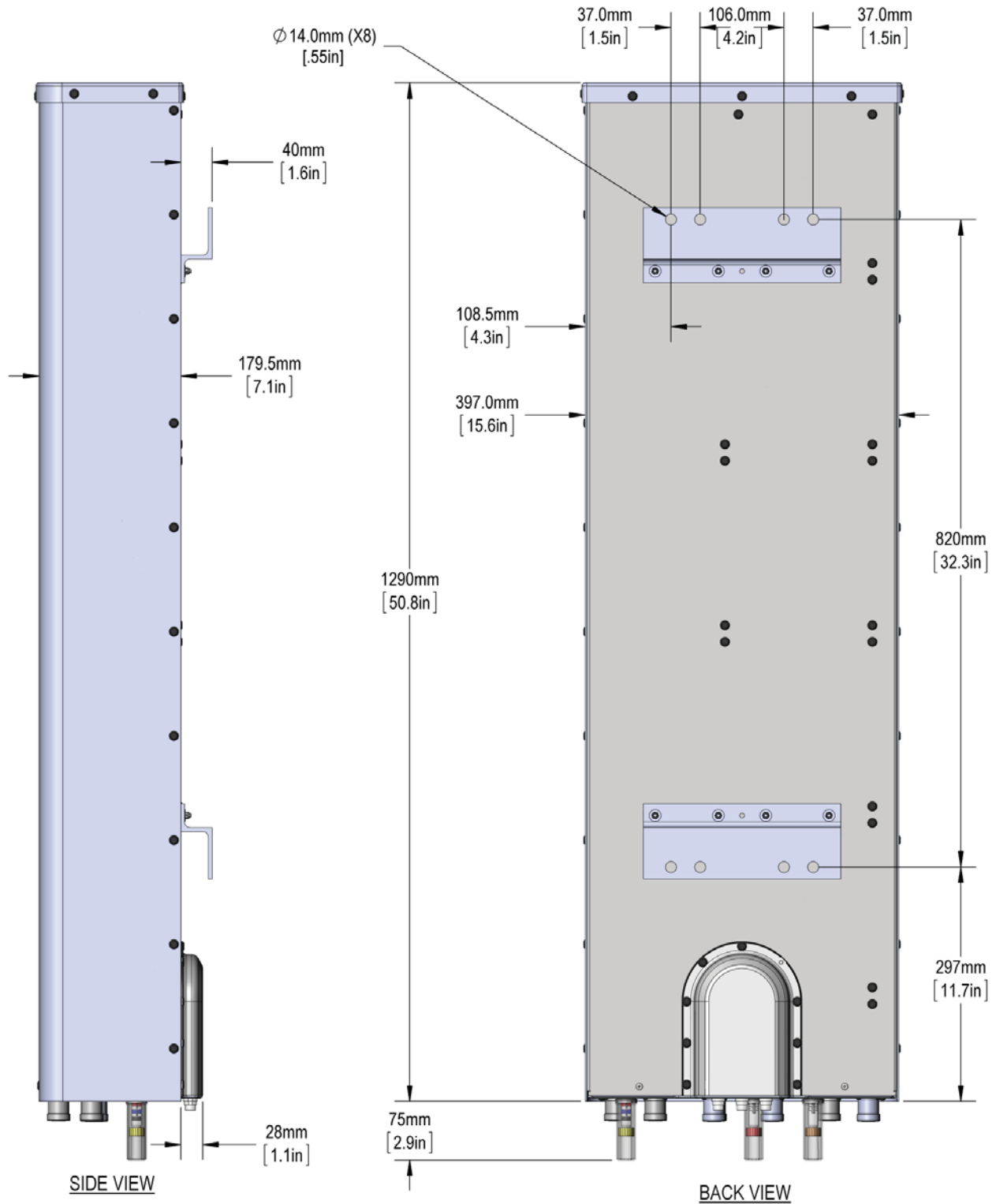
Tilt indicators covered by transparent caps.
Knob colors are the same as the connectors.



In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.

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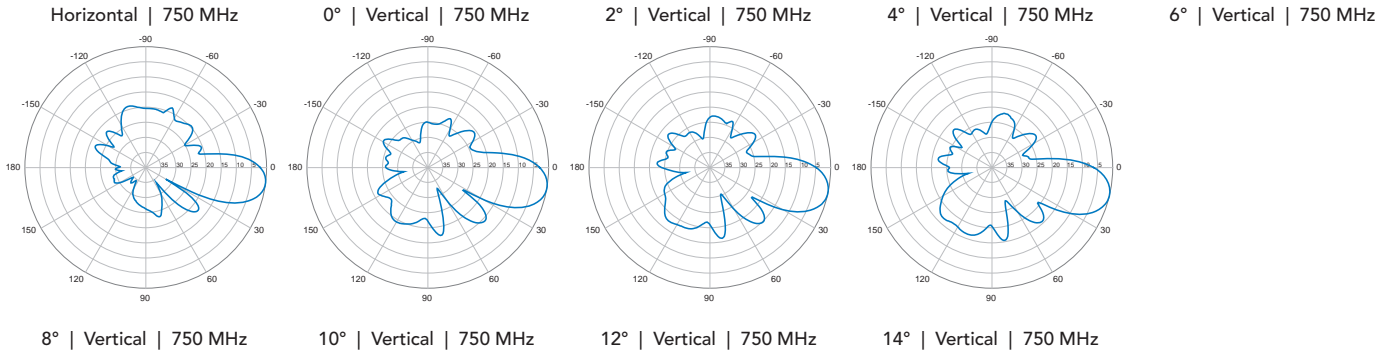
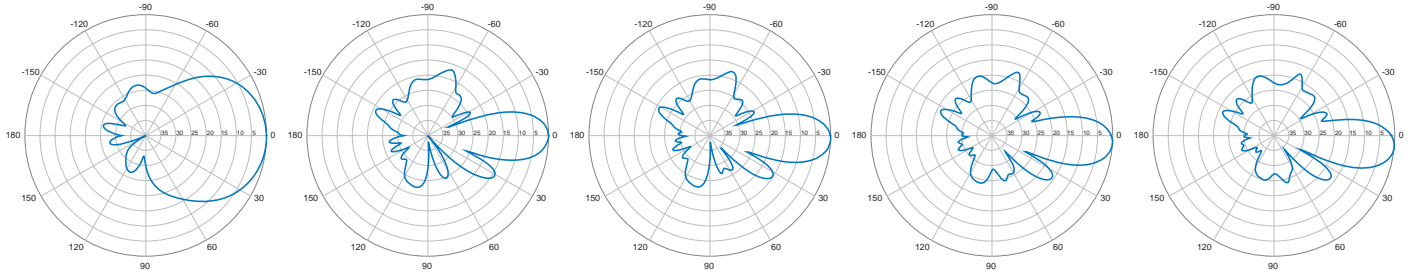


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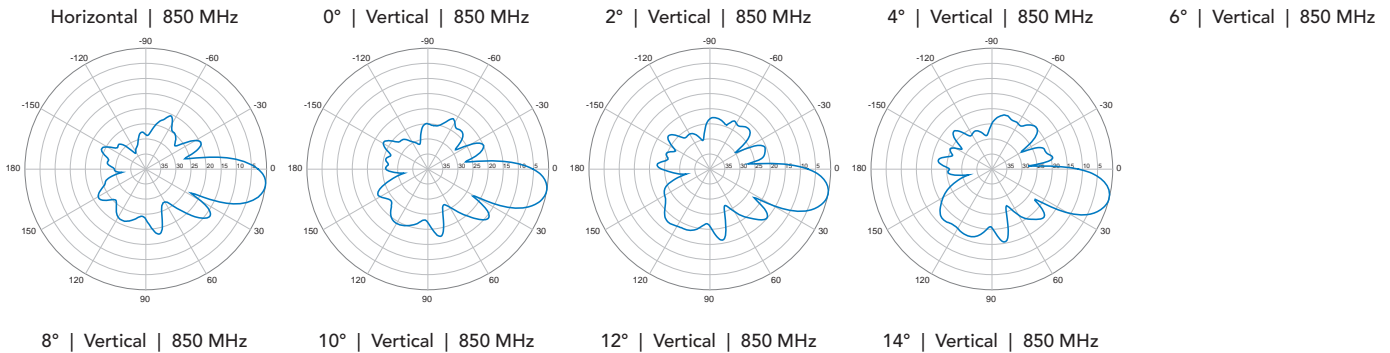
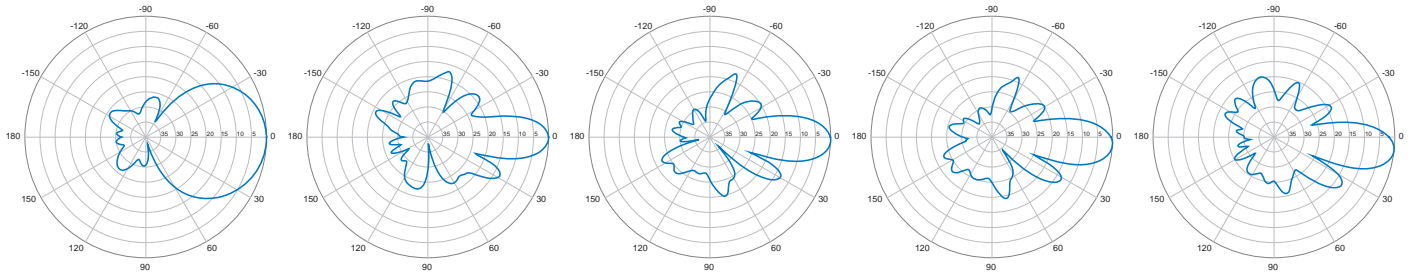
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696-798 MHz



824-900 MHz

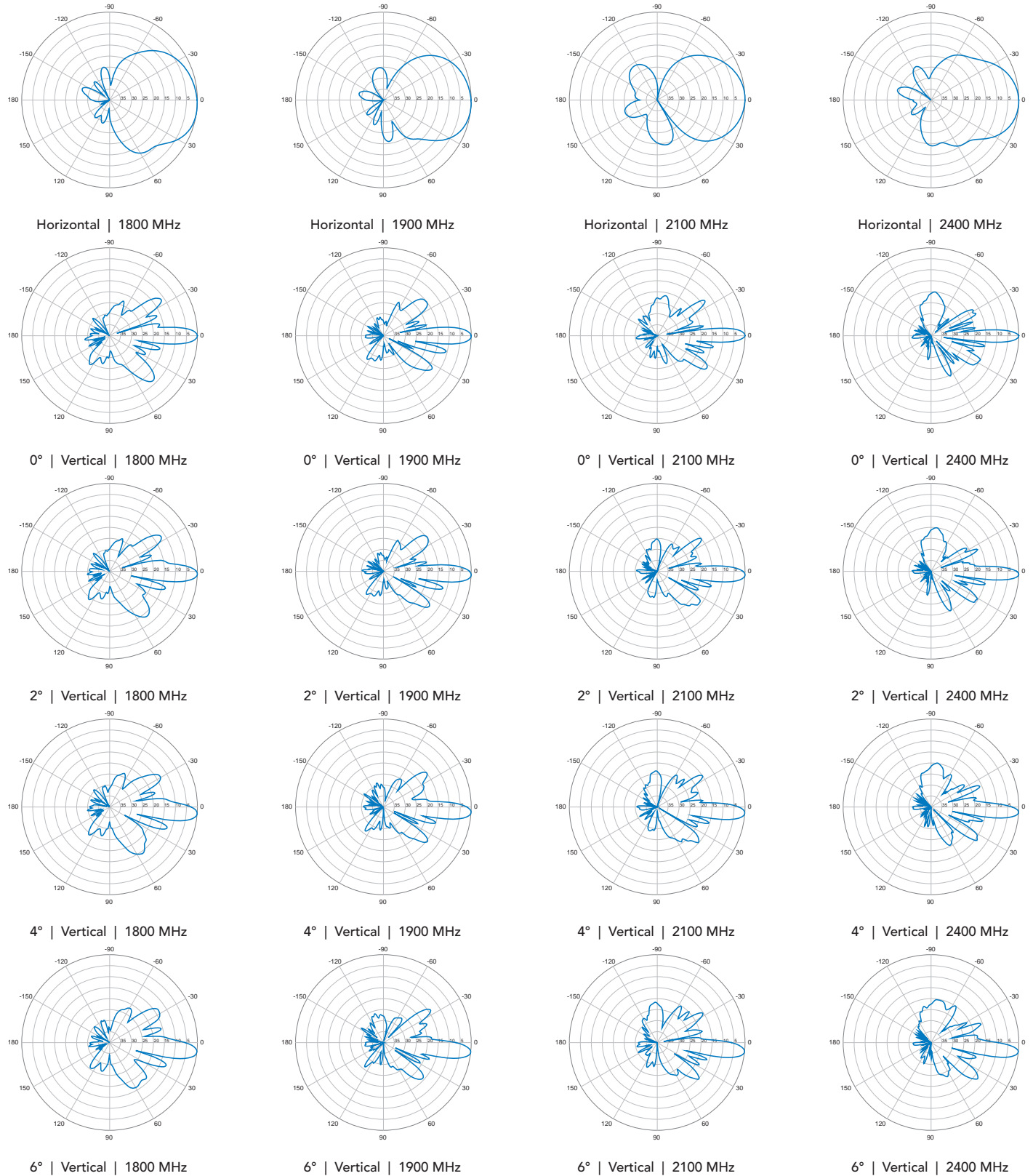


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1695-2400 MHz

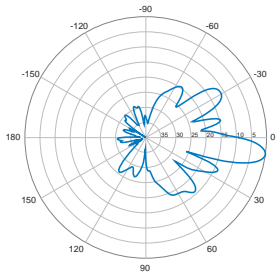


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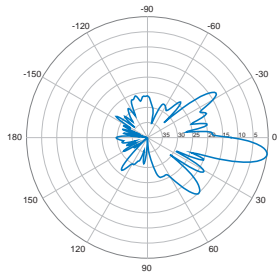
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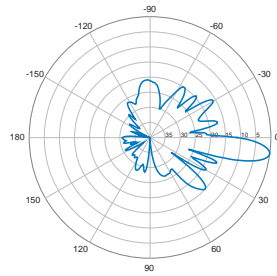
1695-2400 MHz



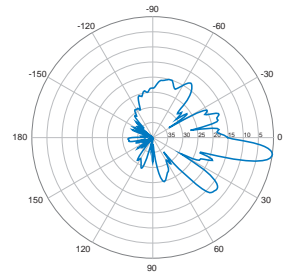
8° | Vertical | 1800 MHz



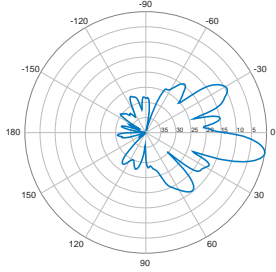
8° | Vertical | 1900 MHz



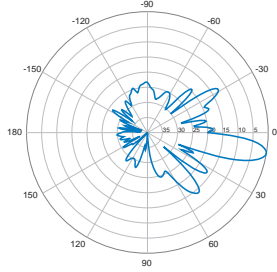
8° | Vertical | 2100 MHz



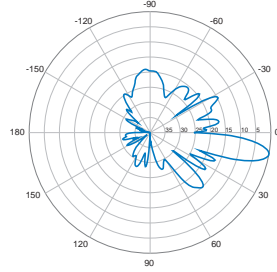
8° | Vertical | 2400 MHz



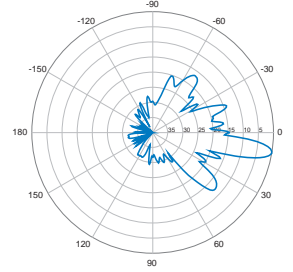
10° | Vertical | 1800 MHz



10° | Vertical | 1900 MHz



10° | Vertical | 2100 MHz



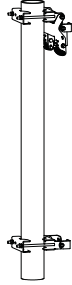
10° | Vertical | 2400 MHz

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Mounting Kit Ordering Options All mounting bracket kits are ordered separately unless otherwise indicated.

Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight
2-Point Mounting and Downtilt Bracket Kit	36210006		40-115 mm 1.57-4.5 in	4.1 kg 9 lbs

Configuration Options

This antenna model cannot be used with Amphenol's UNICELL 3-sector antenna enclosures.

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