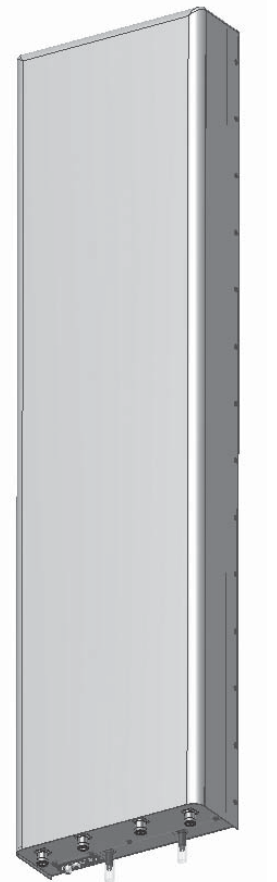


# HTXCW451720x000

Dual Band | VET Panel | XX-Pol | 45° / 45° | 17.0 / 19.5 dBi | Variable Tilt

- Dual band, variable tilt, panel antenna
- Independent tilt on each band, 0°-12° / 0°-8°
- MET and RET versions, AISG1.1 or 3GPP/AISG2.0
- Single RET module to control tilt on all bands, fully inserted inside the antenna (field replaceable)


Ordering Options	Model Number				
When ordering...	Replace “x” in the model number with one of the options listed below.				
Manual Electrical Tilt	HTXCW451720M000				
Remote Electrical Tilt AISG v1.1	HTXCW451720R000				
Remote Electrical Tilt AISG v2.0 / 3GPP	HTXCW451720R000G				
Electrical Characteristics	Low Band		High Band		
Frequency Bands (MHz)	696-806	806-896	1710-1880	1850-1990	1920-2170
Polarization	±45°		±45°		
Horizontal Beamwidth	47°	45°	48°	48°	46°
Vertical Beamwidth	10.5°	9°	6°	5.5°	5.0°
Gain	16.0 dBi	17.0 dBi	18.5 dBi	18.8 dBi	19.5 dBi
Electrical Downtilt (°)	0-12		0-8		
Impedance	50Ω		50Ω		
VSWR	< 1.5:1		< 1.5:1		
Upper Sidelobe Suppression	15 dB typical		16 dB		
Front-to-Back Ratio	> 30 dB		> 30 dB		
Isolation Between Ports (intra-band)	> 25 dB		>25 dB		
Isolation Between Bands (inter-band)	> 30 dB		>30 dB		
IM3 (2x20W carrier)	< -153 dBc		< -153 dBc		
Input Power	500 W		250 W		
Lightning Protection	Direct Ground				
Operating Temperature	-40° to +60° C (-40° to +140° F)				
Connector(s)	4 ports / 7/16 -DIN (Extended) / Female / Bottom				
Mechanical Characteristics					
Dimensions (Height x Width x Diameter)	2107 x 520 x 177 mm		83.0 x 20.5 x 7.0 in		
Weight without Mounting Brackets: MET	27.2 kg		60.0 lbs		
Weight without Mounting Brackets: RET	27.5 kg		60.7 lbs		
Survival Wind Speed	>241 km/hr		> 150 mph		
Wind Loads (160 km/hr or 100 mph)	Front: 1333 N Side: 455 N		Front: 300 lbf Side: 102 lbf		
Mounting Options	Model Number	Fits Pipe Diameter		Weight	
3-Point Mounting Bracket Kit	MKS09P03	50-115 mm	2.0-4.5 in	2.7 kg	6.0 lbs
3-Point Mounting & Downtilt Bracket Kit	MKS09T03	50-115 mm	2.0-4.5 in	4.1 kg	9.0 lbs

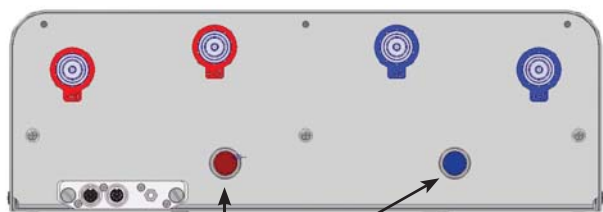


Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product.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

# HTXCW451720x000

Dual Band | VET Panel | XX-Pol | 45° / 45° | 17.0 / 19.5 dBi | Variable Tilt

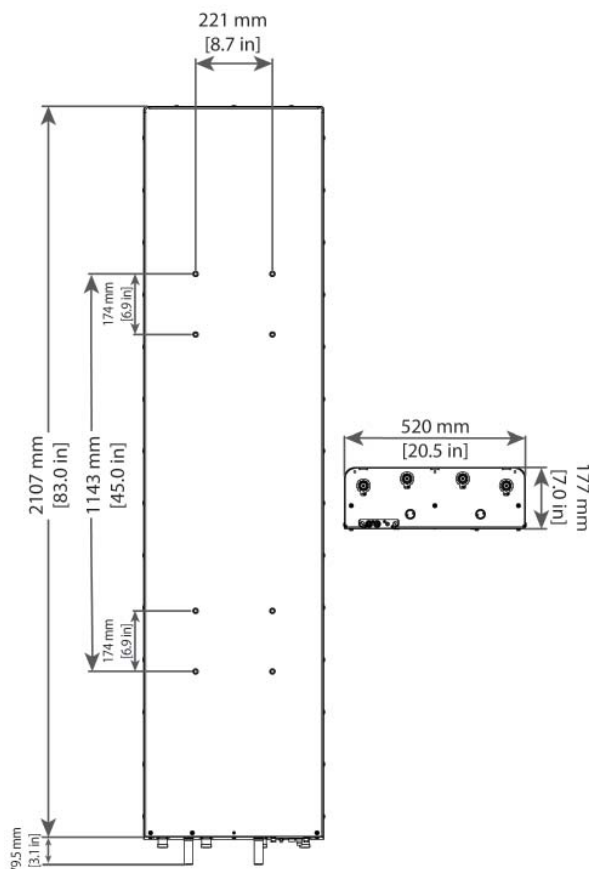
Electrical Downtilt Control		
Electrical downtilt can be controlled separately for Low Band and High Band. The two tilt indicators are covered by a removable transparent cap (see photo below).		
Manual Control	A colored knob at the end of the tilt indicator allows change of the tilt without need for a tool. Knob color is identical to connector colors. To access the knob, the cap is removed by turning it counter clockwise. It is re-installed by opposite rotation.	
Remote Control	The remote control of the electrical tilt is managed by a module (MDCU) totally inserted at the bottom of the antenna. One single module controls individually the tilt of each band (no need of daisy chain cables between the bands). For RET control, the transparent cap must be in place and locked. This module does not add any additional length at the bottom of the antenna. The tilt angle indicator always remains visible and the antenna still has manual tilt control (manual override).	
RET Module Part Number (only one needed per antenna)	MDCU-A0000	for AISG v1.1 protocol (one unit included in HTXCW451720R000)
	MDCU-G0000	for AISG v2.0 / 3GPP protocol (one unit included in HTXCW451720R000G)
Installation Instructions		
Important Installation Instructions	 <p>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.</p> <p>Do not install the antenna with the connectors facing upward.</p>	
Bottom View	Dimensions	



Location of the MDCU for RET control

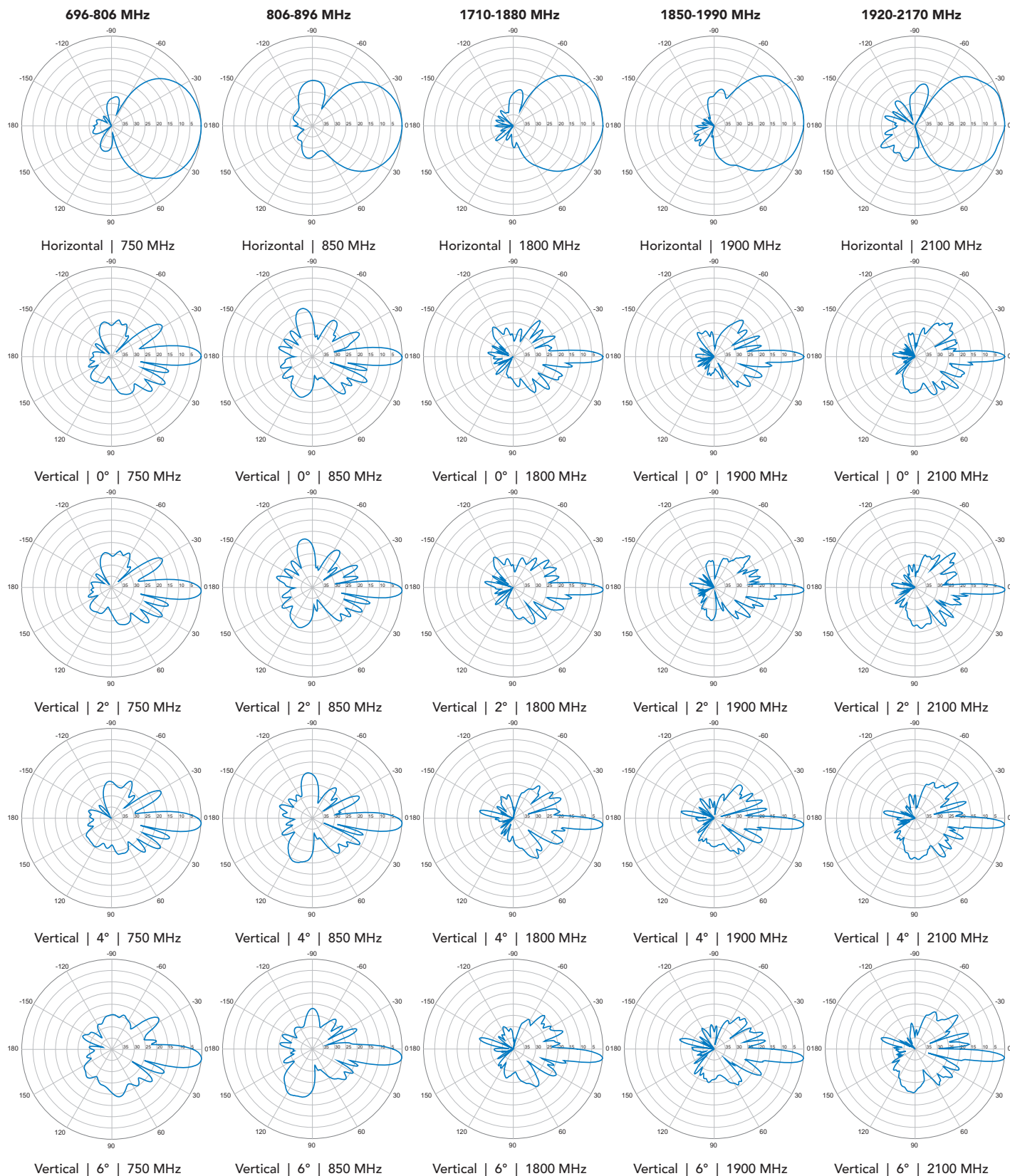
Tilt indicators are covered by transparent caps. Manual adjustment is accessed by removing the caps. Knob colors are the same as the connectors.

For RET control, the caps must be in place.



## HTXCW451720x000

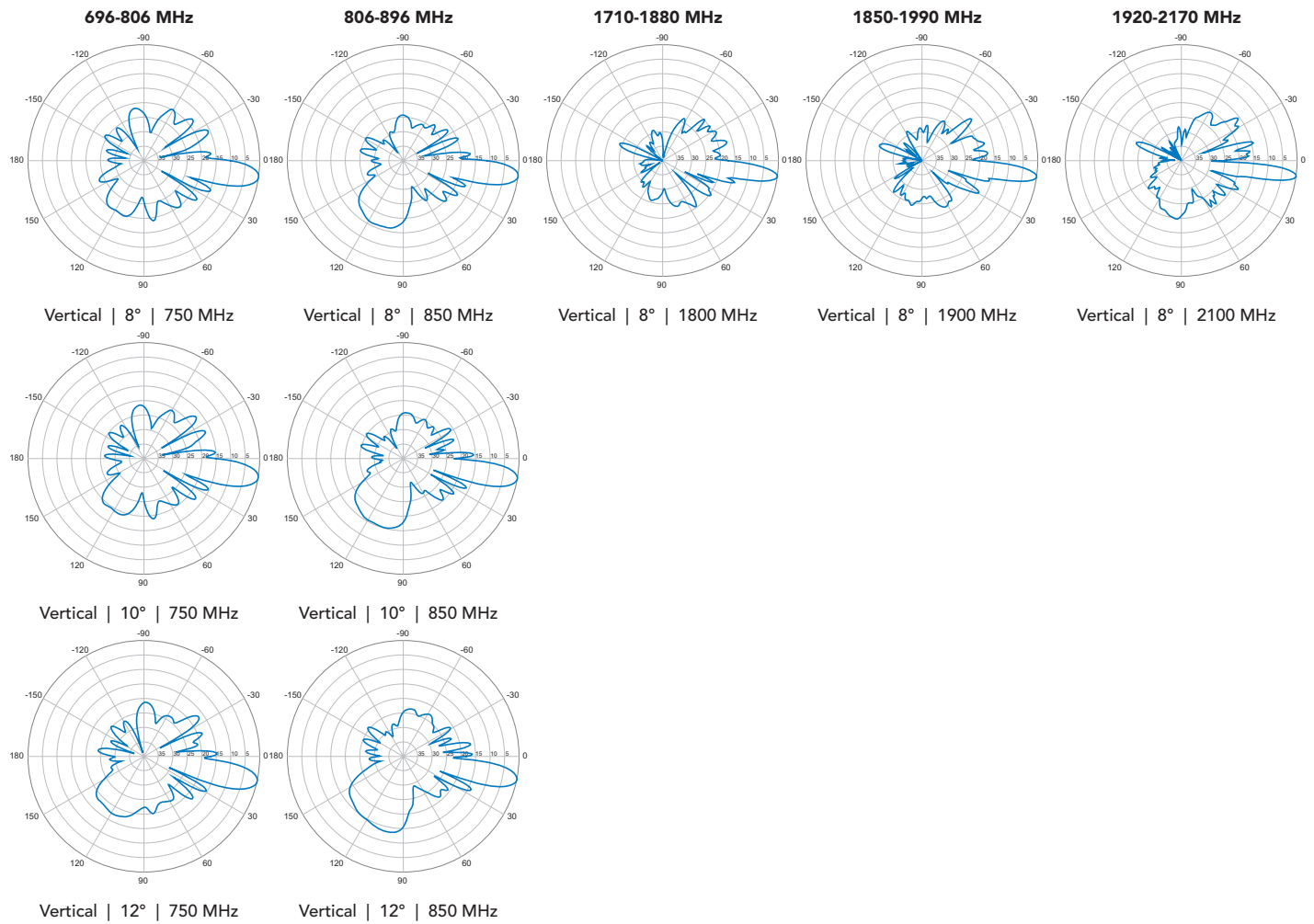
Dual Band | VET Panel | XX-Pol | 45° / 45° | 17.0 / 19.5 dBi | Variable Tilt



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Dual Band | VET Panel | XX-Pol | 45° / 45° | 17.0 / 19.5 dBi | Variable Tilt



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