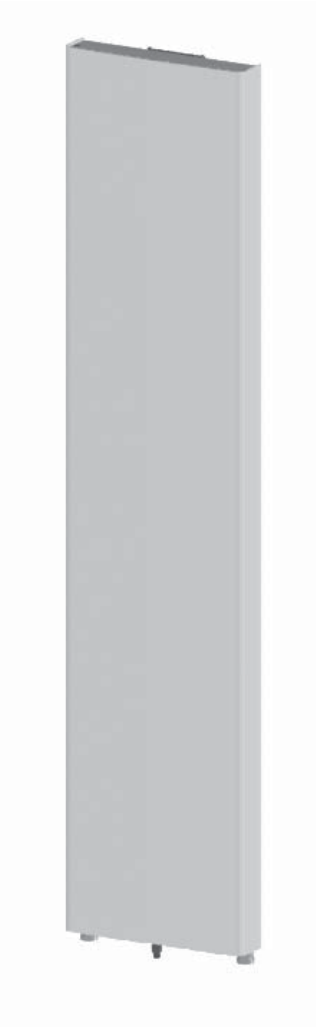
WBX045X20x050

Single Band | Panel Antenna | X-Pol | 45° | 19.8 dBi | Variable Tilt

- Single Band, X-Pol, variable tilt, panel antenna
- Variable electrical tilt range of 0°-10°
- Patented internal RET actuator adds no additional length to the antenna
- Available in Manual and Remote AISG1.1 or 3GPP/AISG2.0 versions



Ordering Options	Model Number
When ordering, replace "x" in the model number with one of the options listed below.	
Manual Electrical Tilt	WBX045X20M050
Remote Electrical Tilt AISG v1.1	WBX045X20R050
Remote Electrical Tilt AISG v2.0 / 3GPP	WBX045X20R050G
Mounting bracket kits and other accessories are ordered separately unless otherwise indicated.	

Electrical Characteristics	1710-2170 MHz		
Frequency Bands	1710-1880 MHz	1850-1990 MHz	1900-2170 MHz
Polarization	±45°		
Horizontal Beamwidth	48°	46°	44°
Vertical Beamwidth	6.3°	5.9°	5.5°
Gain	18.8 dBi	19.3 dBi	19.8 dBi
Electrical Downtilt	0-10°		
Impedance	50Ω		
VSWR	< 1.4:1		
Upper Sidelobe Suppression	< -18 dB		
Front-to-Back Ratio	> 30 dB		
In-Band Isolation	> 30 dB		
IM3 (2x20W carrier)	< -153 dBc		
Input Power	160 W		
Connectors, Type, Location	2 Connectors / 7/16-DIN Female / Bottom		
Diplexed	No		
Lightning Protection	Direct Ground		
Operating Temperature	-40° to +60° C (-40° to +140° F)		

Mechanical Characteristics			
Dimensions (Length x Width x Depth)		1690 x 234 x 77 mm	66.5 x 9.2 x 3.0 in
Weight without Mounting Brackets		10 kg	22.0 lbs
Survival Wind Speed		201 km/hr	125 mph
Wind Loads (160 km/hr or 100 mph)	Front	520 N	117 lbf
	Side	170 N	38 lbf

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Electrical Downtilt Control			
Electrical downtilt can be controlled with the tilt indicator knob located at the bottom face of antenna.			
Manual Electrical Tilt (MET) Control	A knob at the end of the tilt indicator allows change of the tilt without need for a tool.		
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by an internal RET module totally inserted at the bottom of the antenna. 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	The RET module is factory installed and does not need to be ordered separately.		
	Part Number for AISG v1.1 protocol:	RETU-CA01	One unit installed in WBX045X20R050
	Part Number for 3GPP/AISG v2.0 protocol:	RETU-CG01	One unit installed in WBX045X20R050G
Important Installation Instructions	Do not install the antenna with the connectors facing upward.		

Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight
All mounting bracket kits are ordered separately unless otherwise indicated. Select from the options listed below.				
2-Point Scissor Tilt Bracket Kit - Mounting & Downtilt (Included)	MKS05T03		40-115 mm 1.6-4.5 in	4.1 kg 9.1 lbs
2-Point Bar Downtilt Bracket Kit	MKS05T04		40-115 mm 1.6-4.5 in	4.0 kg 8.8 lbs

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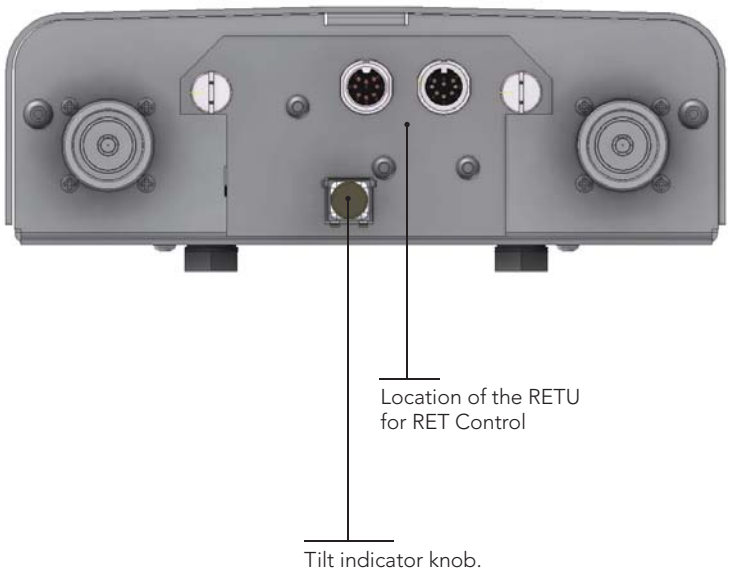
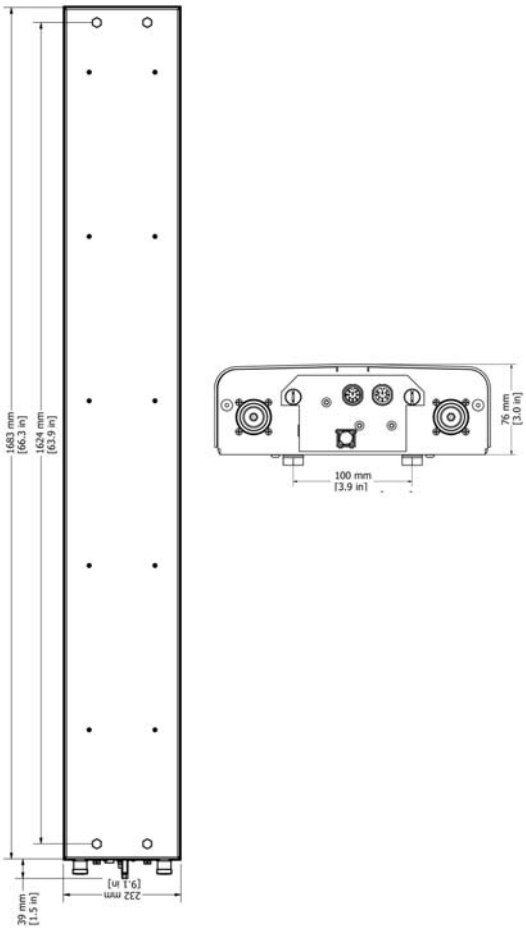
Bottom View of Antenna	Dimensions





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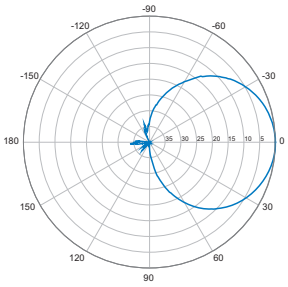
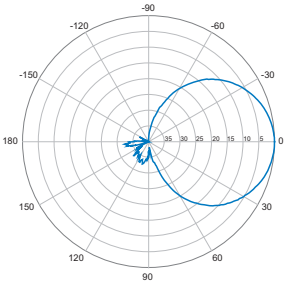
Single Band | Panel Antenna | X-Pol | 45° | 19.8 dBi | Variable Tilt

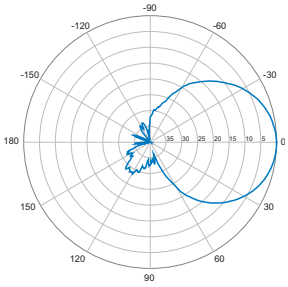
1710-1880 MHz



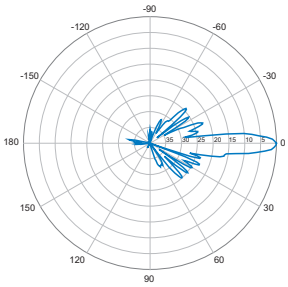
1850-1990 MHz



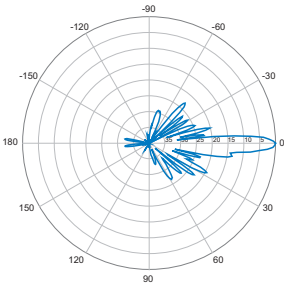
1900-2170 MHz



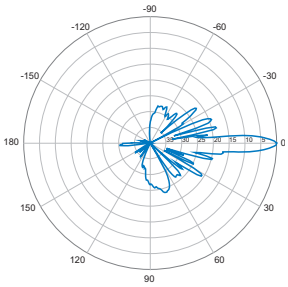
Horizontal | 1800 MHz



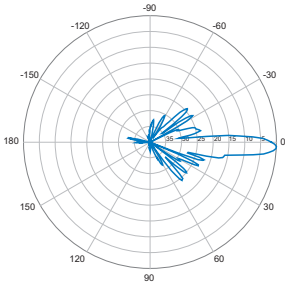
Horizontal | 1900 MHz



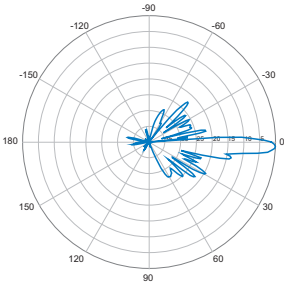
Horizontal | 2100 MHz



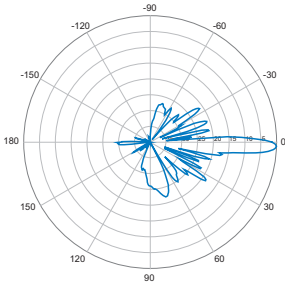
0° | Vertical | 1800 MHz



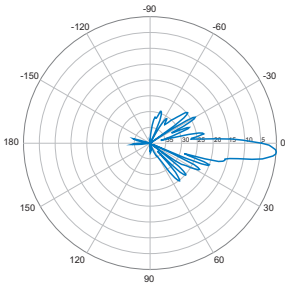
0° | Vertical | 1900 MHz



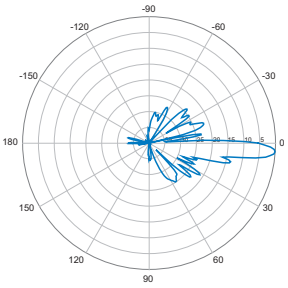
0° | Vertical | 2100 MHz



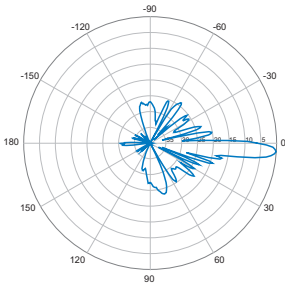
2° | Vertical | 1800 MHz



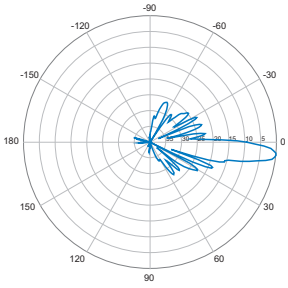
2° | Vertical | 1900 MHz



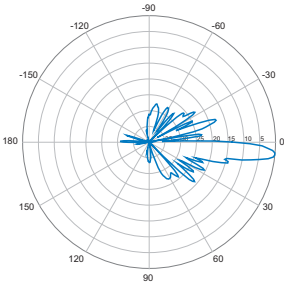
2° | Vertical | 2100 MHz



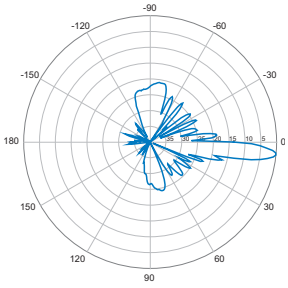
4° | Vertical | 1800 MHz



4° | Vertical | 1900 MHz



4° | Vertical | 2100 MHz



6° | Vertical | 1800 MHz

6° | Vertical | 1900 MHz

6° | Vertical | 2100 MHz

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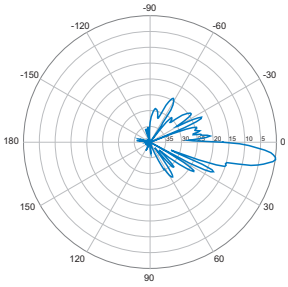
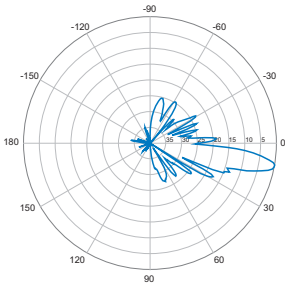
1710-1880 MHz

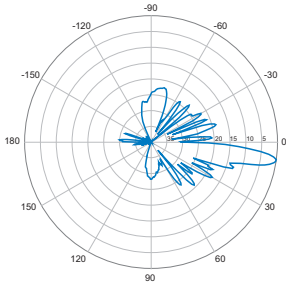


8° | Vertical | 1800 MHz

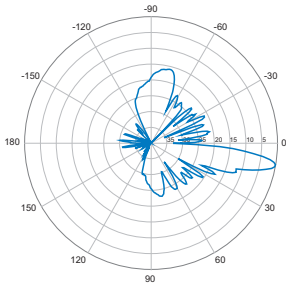


10° | Vertical | 1800 MHz

1850-1990 MHz

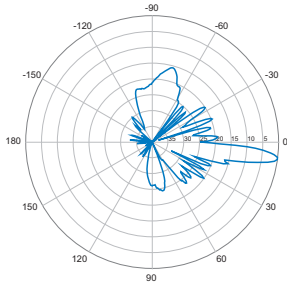


8° | Vertical | 1900 MHz

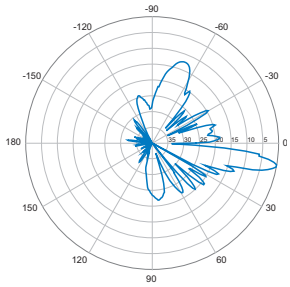


10° | Vertical | 1900 MHz

1900-2170 MHz



8° | Vertical | 2100 MHz



10° | Vertical | 2100 MHz

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