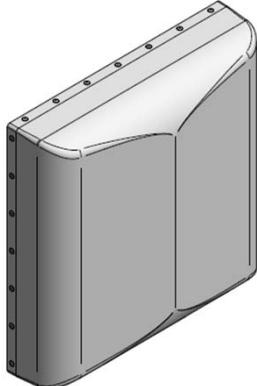
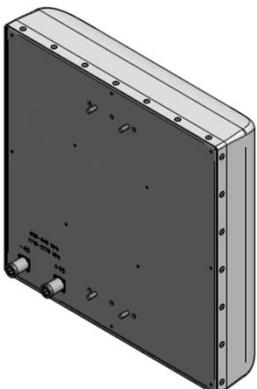


**DISCONTINUED****XEW-FRO-230**

X-Pol Antenna, 698-945/1710-2360MHz, 24", 30° E/H Beams



- Dual Band 30° x 30°
- Stadium/ODAS
- Includes flexible stadium bracket
- Broadband radiators
- Suitable for WCS/LTE/CDMA/UMTS/GSM

**Includes Integrated Diplexers**

Reduces RF cables  
Eliminates external devices

***Electrical Specifications***

Frequency Band, MHz	698-824	824-945	1710-1880	1800-1990	1920-2170	2190-2360
Horizontal Beamwidth, 3dB points	39°	32°	31°	27°	27°	26°
Gain, dBi	12.7	13.6	13.3	13.6	14	14.4
Vertical Beamwidth, 3dB points	39°	33°	31°	28°	28°	26°
Front-to-Back at 180°, dB	30			30		
Polarization	+/- 45°			+/- 45°		
Electrical Downtilt	0°			0°		
VSWR/Return Loss, dB, Maximum	1.7:1/11.8			1.7:1/11.8		
Isolation Between Ports, dB, Minimum	26			26		
Intermodulation (2x20w), IM3, dBc, Maximum	-150			-150		
Impedance, ohms	50			50		
Max Power Per Connector, CW	100 @ 800MHz			100 @ 1900MHz		
Max Power Per Connector w/ High Power Opt, CW	250 @ 800MHz			125 @ 1900MHz		



## Mechanical Specifications

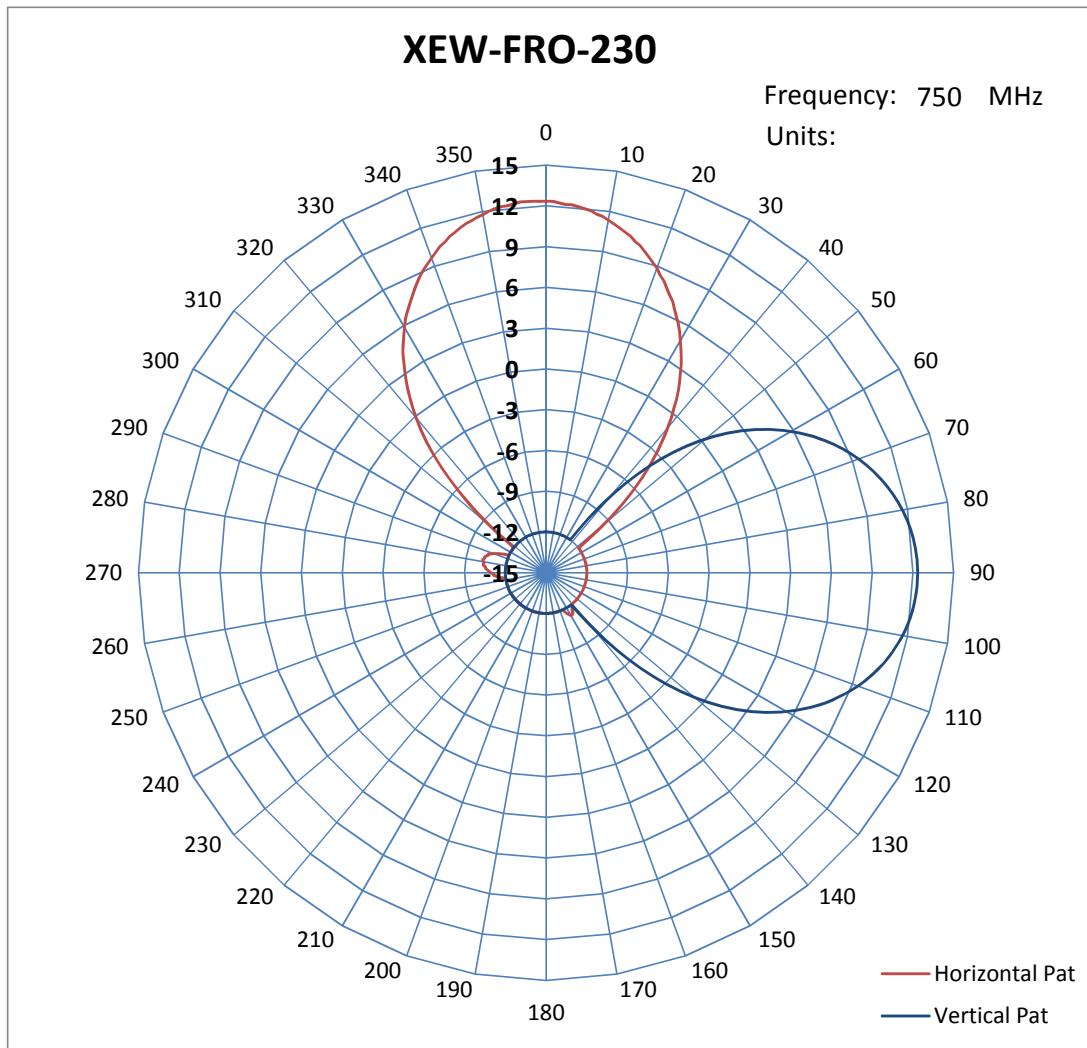
# XEW-FRO-230

X-Pol Antenna, 698-945/1710-2360MHz, 24", 30° E/H Beams

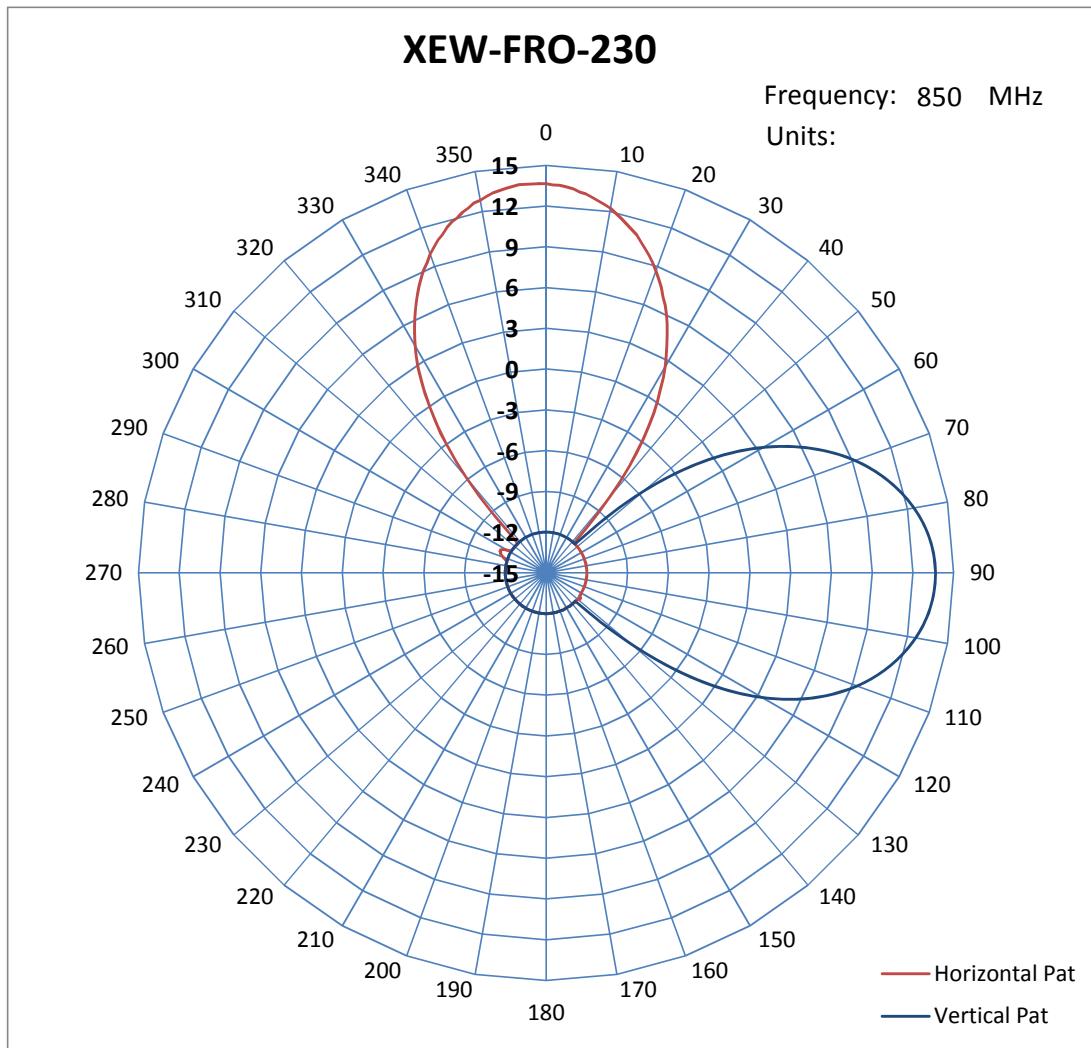
Dimensions, Length/Width/Depth	24.0/24.0/7.0 in (610/610/178 mm)
Connector (Quantity) Type	(2) 7-16 DIN Female
Connector Torque	220-265 lbf-in (23-30 N-m)
Connector Location	Back
Antenna Weight (IP Option)	15.5 lb (7.0 kg)
Bracket Weight	12.6 lb (5.7 kg)
Standard Bracket Kit	CSS P/N 919017
Mechanical Downtilt Range	0° - 22°
Radome Material	High Strength Luran, UV Stabilized, ASTM D1925
Wind Survival	150 mph (241 km/h)
Front Wind Load	96.5 lbf (429 N) @100mph
Equivalent Flat Plate	1.92 sq-ft (c=2) @ 100mph

## Order Information

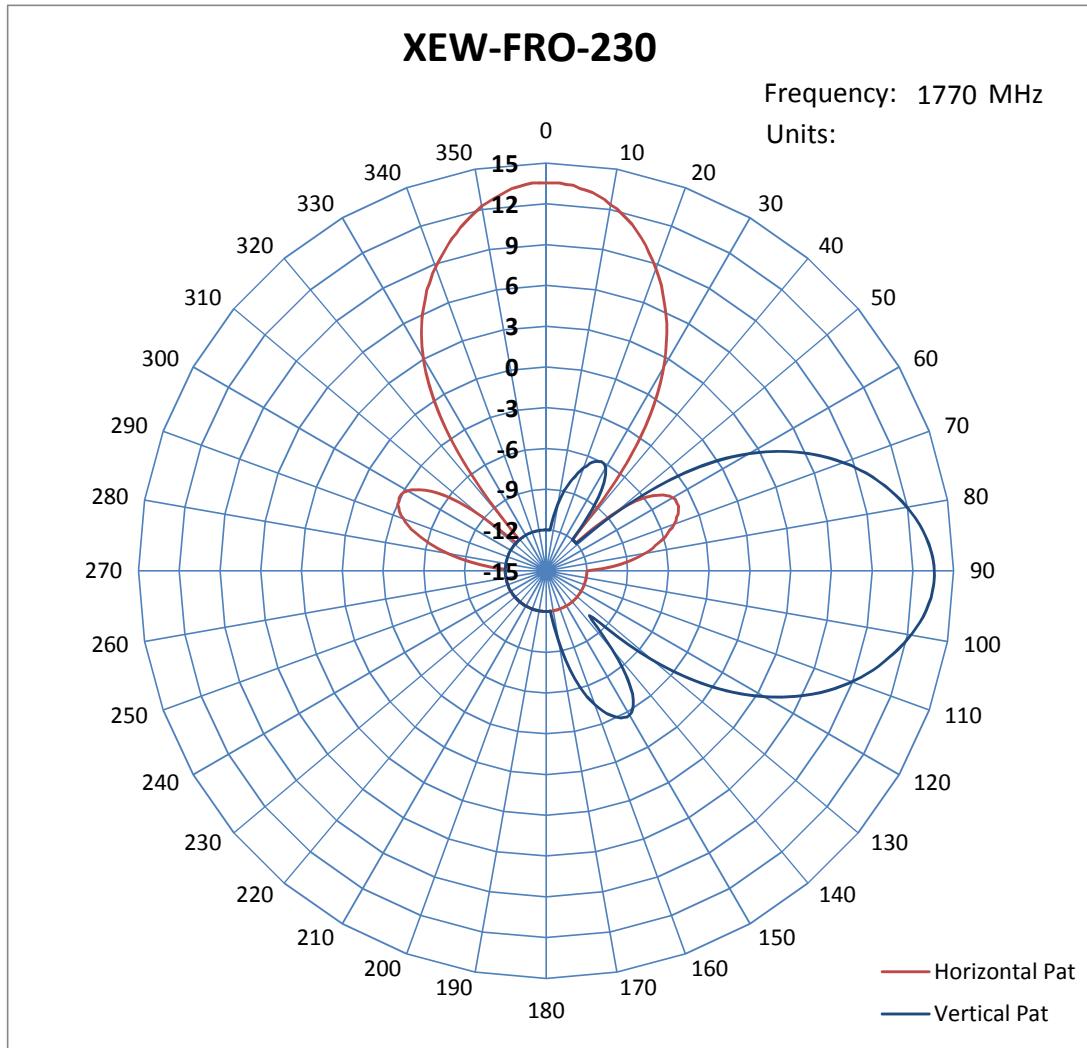
<i>Model</i>	<i>Description</i>
XEW-FRO-230-IP	X-Pol dual band, 0° electrical downtilt with two DIN connectors and integrated diplexers.
XEW-FRO-230-HP	X-Pol dual band, 0° electrical downtilt with two DIN connectors and integrated high power diplexers.

*Patterns Measured @ 750MHz*

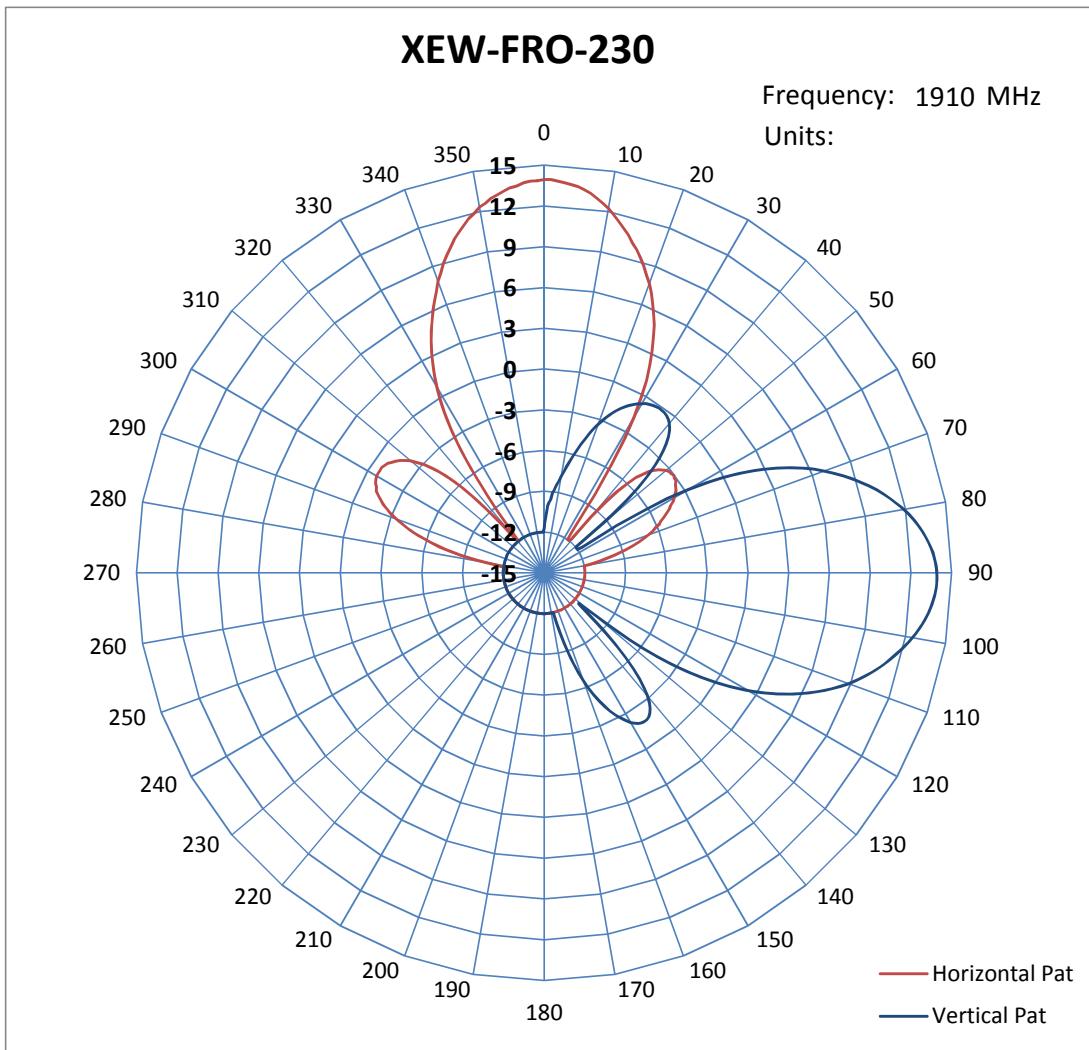
Center = -15dB, with 3dB/radial division and 10° angular division



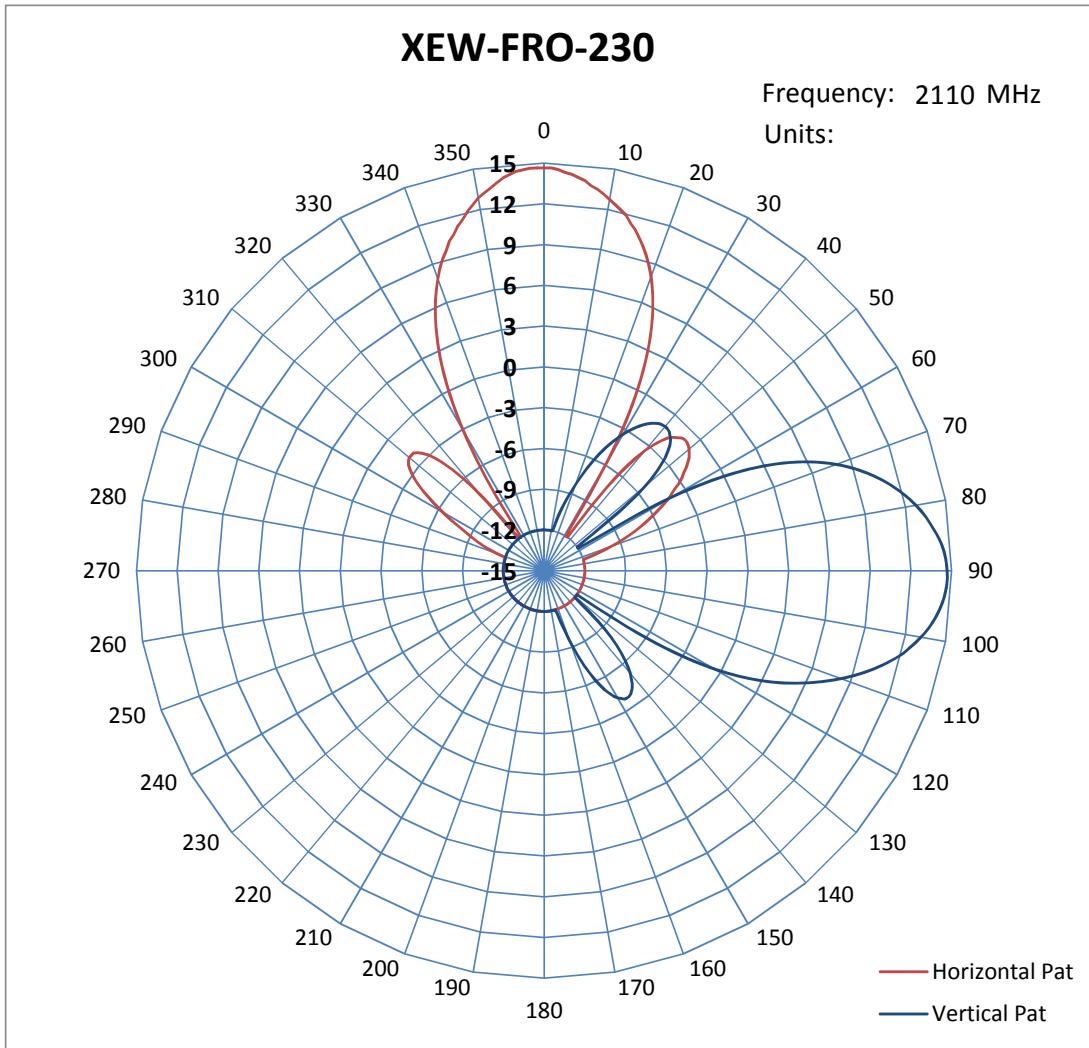
Center = -15dB, with 3dB/radial division and 10° angular division



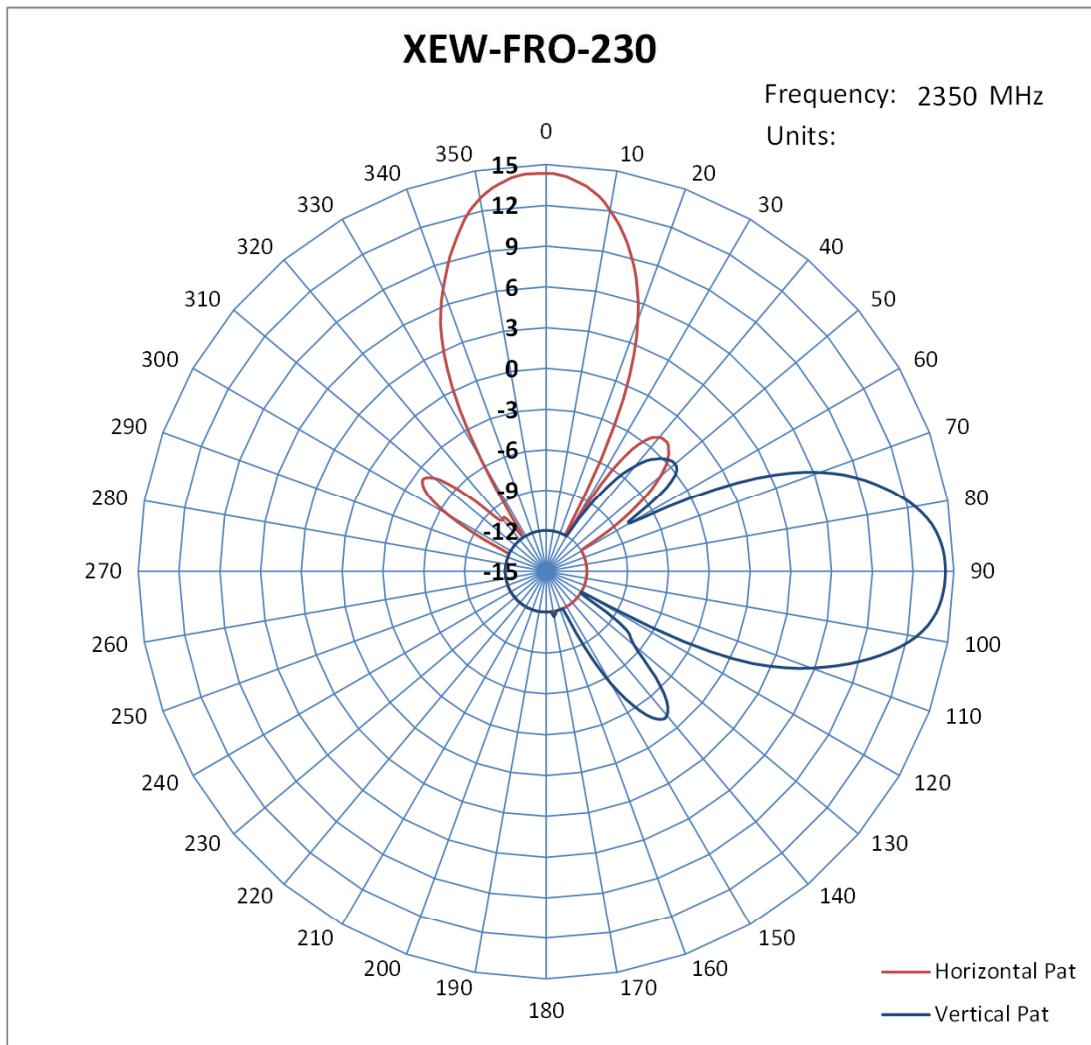
Center = -15dB, with 3dB/radial division and 10° angular division



Center = -15dB, with 3 dB/radial division and 10° angular division

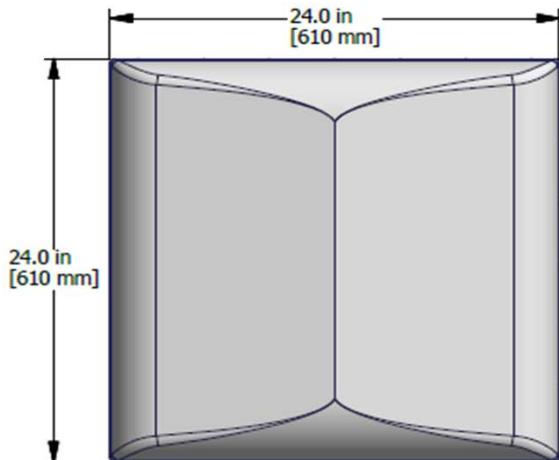


Center = -15dB, with 3dB/radial division and 10° angular division

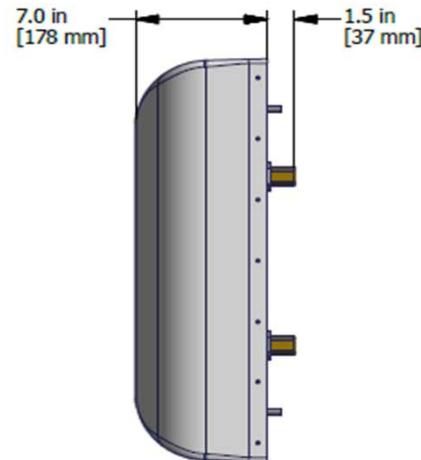


Center = -15dB, with 3dB/radial division and 10° angular division

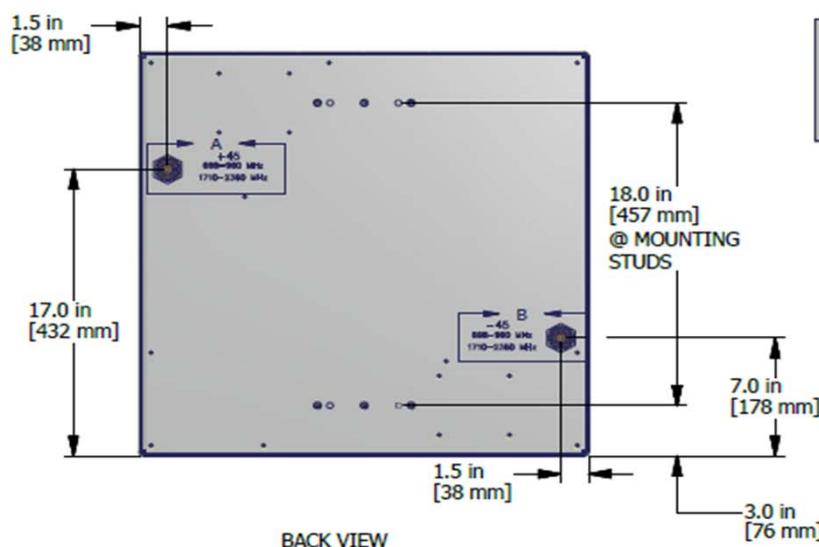
**XEW-FRO-230-IP**



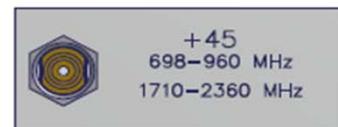
FRONT VIEW



SIDE VIEW



BACK VIEW



DETAIL A



DETAIL B

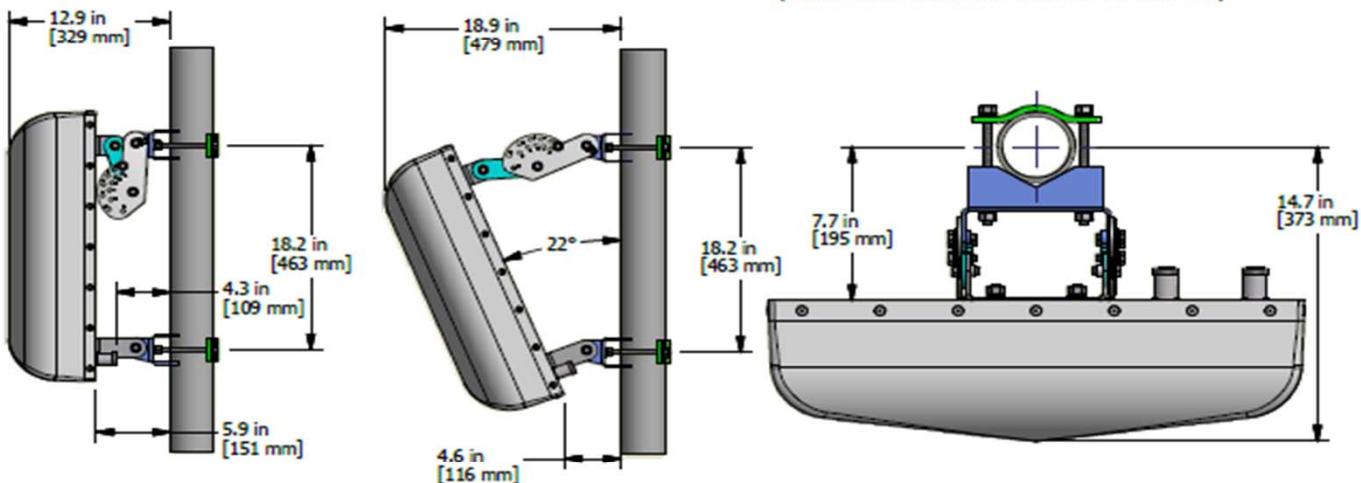


Standard Bracket Kit

**XEW-FRO-230**

X-Pol Antenna, 698-945/1710-2360MHz, 24", 30° E/H Beams

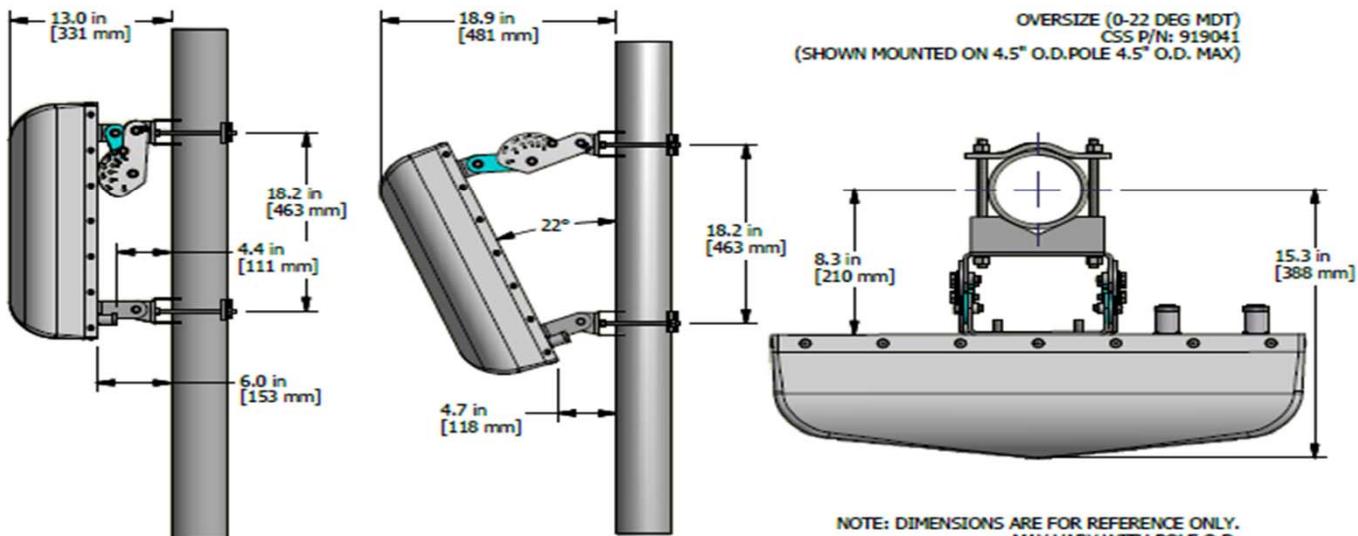
STANDARD (0-22 DEG MDT)  
CSS P/N: 919017  
(SHOWN MOUNTED ON 3.5" O.D. POLE 3.5" O.D. MAX)



NOTE: DIMENSIONS ARE FOR REFERENCE ONLY.  
MAY VARY WITH POLE O.D.

*Optional Bracket Kit*

OVERSIZE (0-22 DEG MDT)  
CSS P/N: 919041  
(SHOWN MOUNTED ON 4.5" O.D. POLE 4.5" O.D. MAX)



NOTE: DIMENSIONS ARE FOR REFERENCE ONLY.  
MAY VARY WITH POLE O.D.