

# Product Data Sheet

## ULPX301.2F0-2P



### XX Pol Panel Antenna Built-in Diplexer 698-960/1710-2690MHz 65°/65° 8/11dBi 0°/0° FET

#### Electrical Specifications

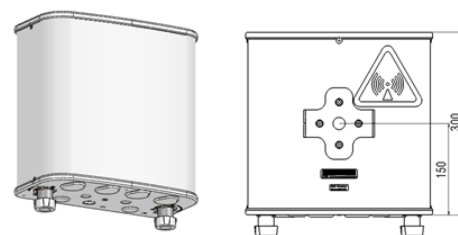
Frequency Range (MHz):	698-960			1710-2690		
	698-806	806-880	880-960	1710-1920	1920-2170	2490-2690
Gain (dBi):	7.2±0.5	7.3±0.5	7.4±0.5	9.4±0.5	10.2±0.5	11.1±0.5
Return Loss (dB):	>14 (VSWR<1.5)					
Polarization (°):	±45					
Horizontal 3dB beamwidth (°):	70	68	67	70	65	58
Vertical 3dB beamwidth (°):	75	75	75	38	32	25
Electrical Downtilt (°):	0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression(dB):	15					
Front to Back Ratio @180±30°(dB):	19	20	20	21	21	21
Cross Polar Ratio 0° (dB):	15					
Cross Polar Ratio ±30° (dB):	11.0	10.0	7.5	7.0	6.0	0.0
Isolation Port to Port (dB):	>25					
Power Rating (W):	100			100		
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)					
Impedance (ohm):	50					
Lightning Protection:	DC Grounded					
Connector Type:	2×7/16 DIN Female					

#### BASTA Electrical Specifications

Frequency Range(MHz):	698-806	806-880	880-960	1710-1920	1920-2170	2490-2690
Average Gain by all Beam Tilts (dBi):	7.2	7.3	7.4	9.4	10.2	11.1
Gain by all Beam Tilts Tolerance(dB):	0.5	0.5	0.5	1.0	0.5	0.5
Average Gain by Beam Tilt (dBi):	7.2	7.3	7.4	9.4	10.2	11.1
Horizontal Beamwidth Tolerance(°):	5.0	4.0	4.0	10.0	10.0	5.0
Vertical Beamwidth Tolerance(°):	9.0	9.0	3.0	3.5	3.5	2.0
USLS beampeak to 20° above beampeak(dB):	22.0	18.0	18.0	18.0	19.0	19.0
Front to back Total Power at 180° ± 30°(dB):	19.0	20.0	20.5	21.5	21.5	21.5
CPR at Boresight(dB):	17.0	19.5	20.0	19.0	20.0	21.0
CPR at Sector(dB):	11.0	10.0	7.5	7.0	6.0	0.0

#### Mechanical Data

Antenna Dimensions (mm):	300×300×150
Packing Dimensions (mm):	507×420×253
Antenna Net Weight (kg):	3.51
Antenna Gross Weight (kg):	6.95
Radome Material:	PVC,UV Resistant
Pipe OD (mm):	70-114
Mounting Kits (Included):	BA.K.04.00033, horizontal adjustable -35°~+35°, vertical adjustable -45°~+45°

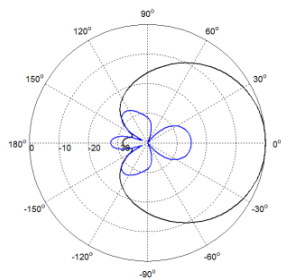


#### Environmental Ratings

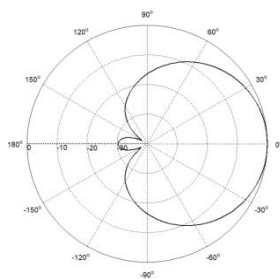
Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 142/40/178
Max.Wind velocity(km/h):	200



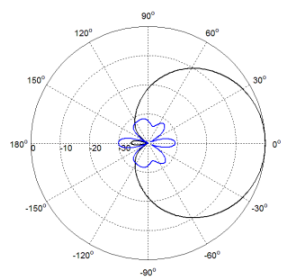
**Typical Patterns**



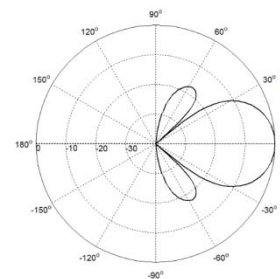
Azimuth(Low Band)



Elevation(Low Band)

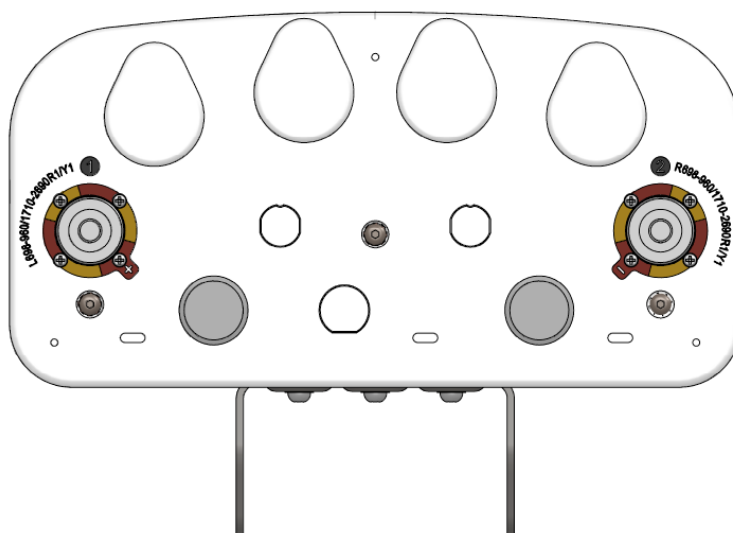


Azimuth(High Band)



Elevation(High Band)

**Bottom View**



**Correlation Table**

Frequency range	Array	Connector
698–960 MHz	R1	1-2
1710– 2690 MHz	Y1	1-2

