

Product Data Sheet

5LPX1106F-C



XXXXX Pol Penta Beam Antenna 5×1710-2690MHz 8° 22.0dBi 6° FET

Electrical Specifications

Frequency Range (MHz):	Beam 3 (Port 5/6, Middle)					
	1710-2300			2300-2690		
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	20.5	22.1	22.1	21.2	21.2	21.5
Horizontal 3dB beamwidth (°):	10	9	8	7.8	7.7	7.4
Horizontal Beam Pointing (°):	0	0	0	0	0	0
Vertical 3dB beamwidth (°):	15	14	12	11.3	10.8	10.4

Frequency Range (MHz):	Beam 1 (Port 1/2, Left)/ Beam 5 (Port 9/10, Right)											
	1710-2300						2300-2690					
	1710-1880		1880-2025		2025-2300		2300-2450		2450-2550		2550-2690	
	B1	B5	B1	B5	B1	B5	B1	B5	B1	B5	B1	B5
Gain (dBi):	19.5	19.6	21.2	21.0	20.6	20.9	20.6	20.0	20.0	20.0	19.7	19.7
Horizontal 3dB beamwidth (°):	12	12	11.2	11	9.6	9.5	9	9	8.7	8.4	8.4	8
Horizontal Beam Pointing (°):	37	-37	34	-34	30	-30	28	-27	27	-26	25	-25
Vertical 3dB beamwidth (°):	18.5	17.5	17	15.8	14.0	13.5	13.6	13.1	12.9	12.5	12.3	11.7

Frequency Range (MHz):	Beam 2 (Port 3/4, Left)/ Beam 4 (Port 7/8, Right)											
	1710-2300						2300-2690					
	1710-1880		1880-2025		2025-2300		2300-2450		2450-2550		2550-2690	
	B2	B4	B2	B4	B2	B4	B2	B4	B2	B4	B2	B4
Gain (dBi):	20.8	20.8	22.0	22.0	22.1	22.0	21.2	21.8	21.0	21.7	21.1	21.8
Horizontal 3dB beamwidth (°):	10.5	10.5	9.5	9.6	8.5	8.7	8.2	8.5	7.7	7.8	7.5	7.7
Horizontal Beam Pointing (°):	18.5	-18	17.5	-16	15.5	-14	14.5	-13	14	-12	12	-12
Vertical 3dB beamwidth (°):	16.5	15.4	14.5	14.1	12.8	12.1	12.2	11.6	11.8	11.3	11.2	10.4

Frequency Range (MHz):	All Beams (Port 1 to 10)	
	1710-2300	2300-2690
Return Loss (dB):	>14 (VSWR<1.5)	
Polarization (°):	±45	
Electrical Downtilt (°):	6 Fixed	6 Fixed
Upper Sidelobe Suppression (dB):	18	18
Front to Back Ratio @180±30°(dB):	33	35
Isolation Between Polarizations (dB):	25	
Power Rating (W):	200	
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)	
Impedance (ohm):	50	
Lightning Protection:	DC Grounded	
Connector Type:	10×4.3-10 Female	



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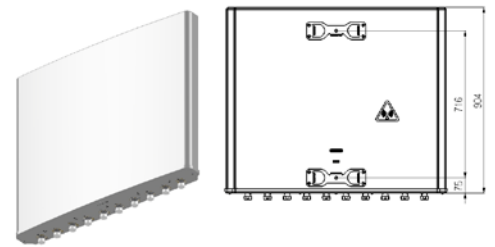


BASTA Electrical Specifications

Frequency Range (MHz):	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Average Gain by all Beams (dBi):	19.6	20.09	21.6	21.0	20.7	20.4
Gain by all Beam Tolerance(dB):	±1.9	±0.8	±0.9	±1.2	±1.3	±1.5
Horizontal Beamwidth Tolerance(°):	±1.3	±1.4	±1.1	±0.8	±0.6	±0.6
Vertical Beamwidth Tolerance(°):	±1.9	±1.7	±1.6	±1.5	±1.0	±1.1
USLS beampeak to 20° above beampeak(dB):	17.4	21.4	19.3	19.6	22.3	15.8
Front to back Total Power at 180° ± 30°(dB):	32.6	37.5	37.0	35.4	37.9	35.9
CPR at Boresight(dB):	13.0	19.1	18.2	19.0	21.4	20.7

Mechanical Data

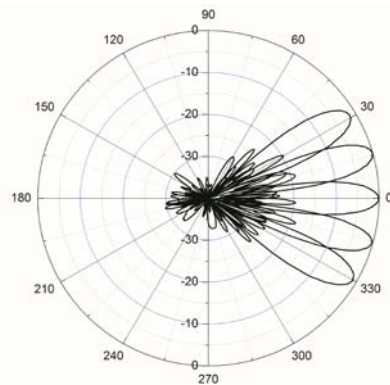
Antenna Dimensions (mm):	904×1076×136
Packing Dimensions (mm):	1057×1194×238
Antenna Net Weight (kg):	34
Antenna Gross Weight (kg):	46
Radome Material:	Fiberglass
Pipe OD (mm):	70-114
Mounting Kits (Included):	BA.K.04.00004, Adjustable Downtilt 0-10°



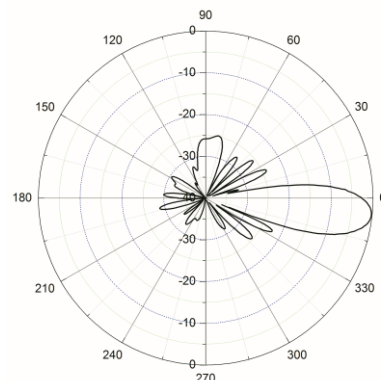
Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:1615/58/1373
Max. Wind velocity(km/h):	200

Typical Patterns



Azimuth



Elevation

Bottom View

