

698-806 MHz
700 MHz

Model "SHP700-360"



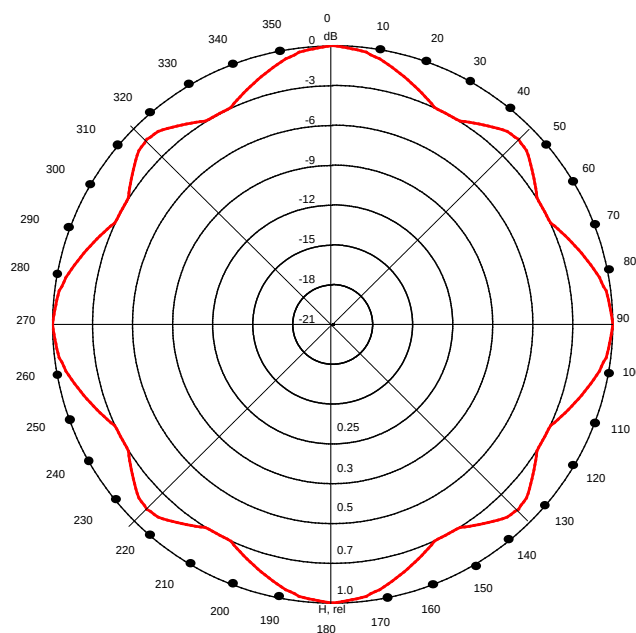
Broadband panel array covering the 698-806 MHz spectrum. The panels are arranged in an array of 4 individuals in each bay mounted every 90 degrees. This produces an omni pattern, while maintaining very low VSWR across the entire band. The array can be top mounted or side mounted to an existing tower without affecting pattern linearity, depending on the width of the tower face.

Additional bays can be stacked vertically to achieve desired gain.

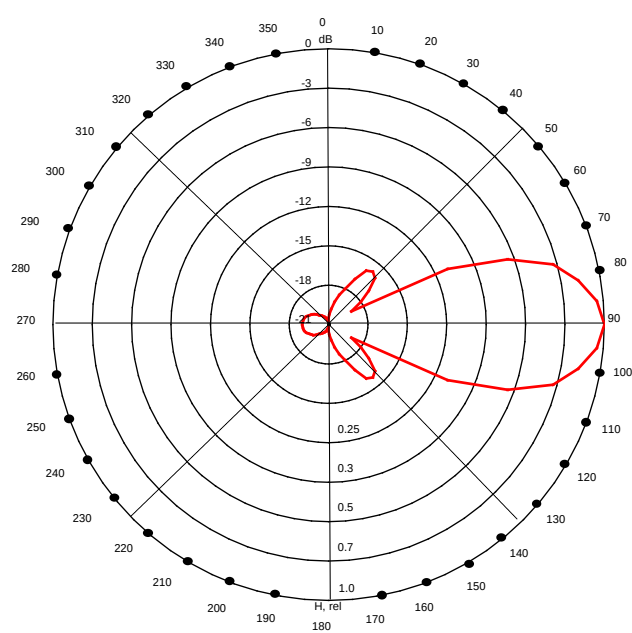
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Electrical



V pol - Horizontal Radiation Pattern (4 around array)



V pol - Vertical Radiation Pattern (single bay)

Frequency Range: 698-806 MHz

Input connector: N female or 7-16 female

VSWR: < 1.20

Gain: 5.5 dBd single bay

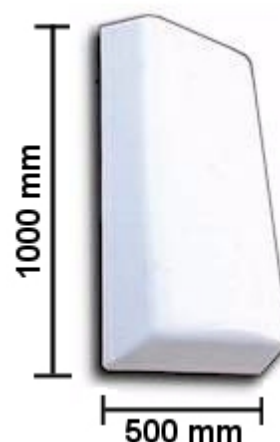
Polarization: Horizontal

Impedance: 50 Ω

Max. input power: 500 w (N connector) or 2 kW (7-16 DIN connector)

Mechanical

Exterior material	
Reflector panel:	Galvanized sheet metal UV stabilized ASA
Radome:	
Interior material	
Radiators:	Structural Aluminum
Internal feed:	Machined brass
Dimensions:	1000 mm X 500 mm rear panel grid
Grounding:	Antenna and radiating elements are DC grounded for lightning protection
Mounting clamps:	HDG clamps are available for coverage requirements
Icing protection:	Radome protecting radiating elements and feed



# of Bays	Panels per Bay	Total # of Panels	Gain (dBd)	Gain (Pr)	Weight (Kg) w/o mounts	Overall Height (meters)	Windload kN @ 160 km/h
1	4	4	5.5	3.63	48	1.2	1.5
2	4	8	9.1	8.13	96	2.25	3.1
3	4	12	10.9	12.3	144	3.4	4.6
4	4	16	12.2	16.6	192	4.5	6.2
6	4	24	14.1	25.7	288	6.8	9.3
8	4	32	15.2	33.11	384	9	12.4

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Antenna Height { H } in Meters Antenna Spacing { S } in mm		
No of Bays	H	S
1	1.2	-
2	2.25	1150
4	4.5	1150
6	6.8	1150
8	9.0	1150
12	14.0	1150

Weight in KG without mounting hardware			
No. of Bays	Panels / Bay	Total No. of Panels	Weight
1	4	4	48
2	4	8	96
4	4	16	192
6	4	24	288
8	4	32	384
12	4	48	576

