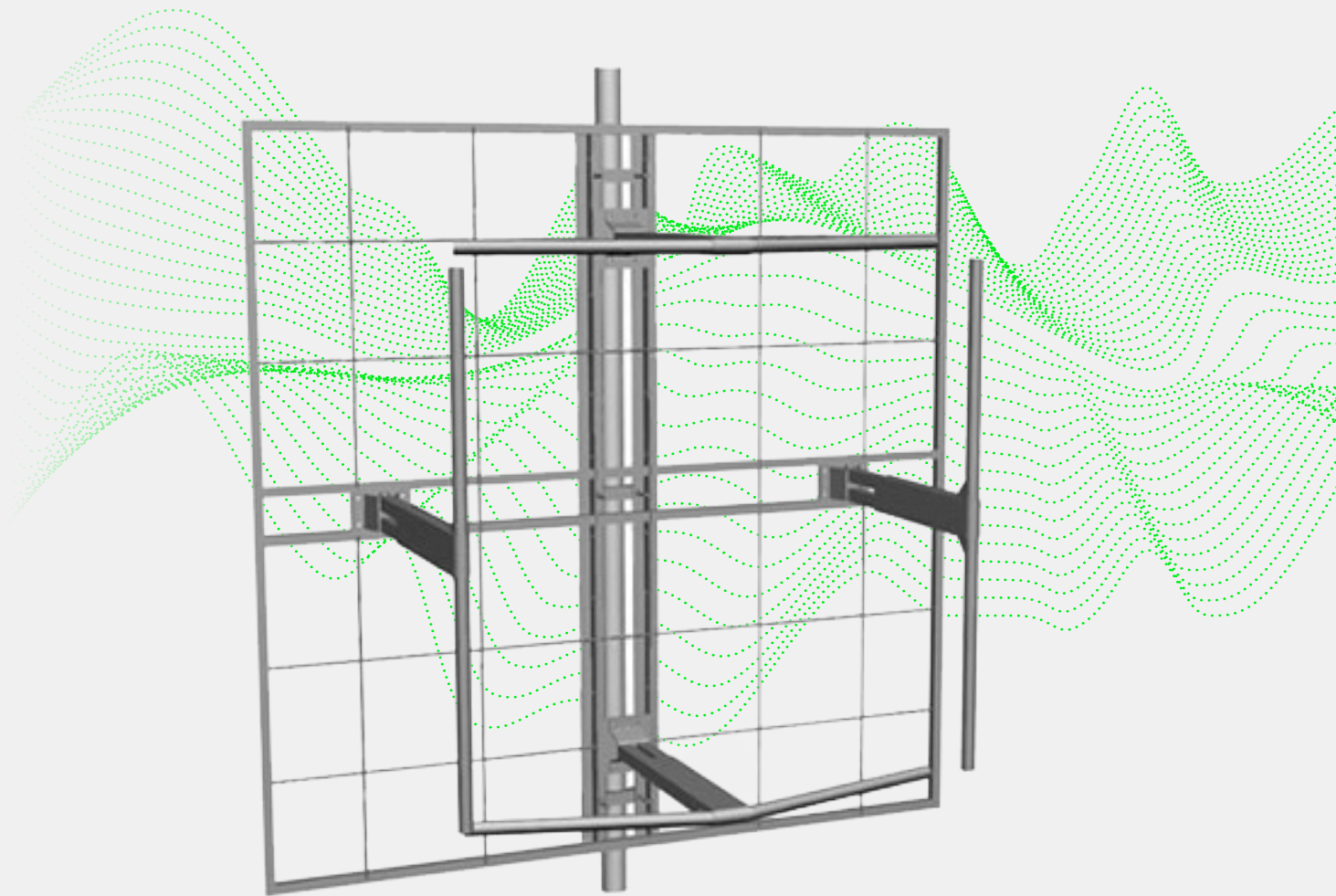


RFE

MAKING
BROADCAST
SMARTER

Circular Panel Antenna HPGA

ANTENNA SYSTEMS



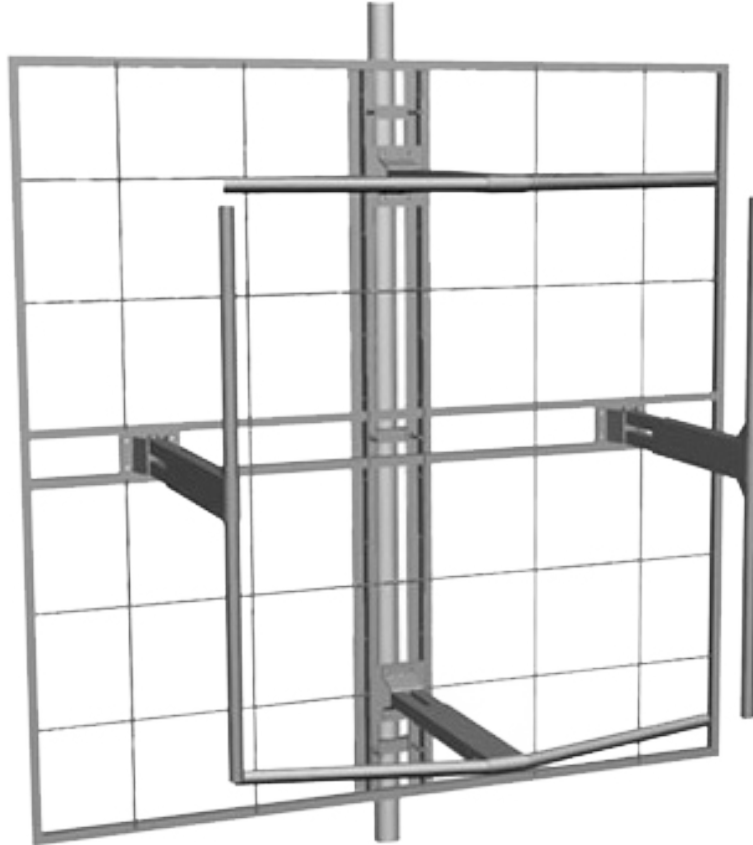


RFE

MAKING
BROADCAST
SMARTER

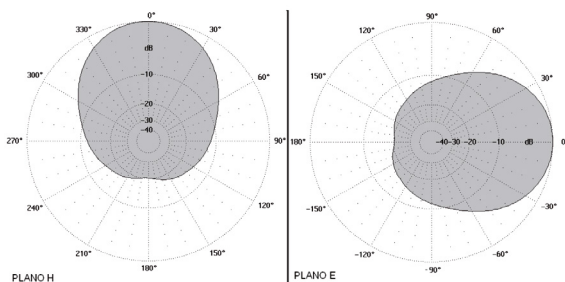
PRODUCT DESCRIPTION

Circular Panel Antenna HPGA



PRODUCT DESCRIPTION

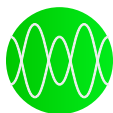
HPGA is a circular panel antenna, with circular polarization and directional pattern. Ideal for high power broadcast application, it is pressurizable and suitable for military standards.



MAIN FEATURES

- 87,5-108 MHz Broadband.
- Suitable for high power stacked array.
- Robust construction in deep galvanized & stainless steel
- Detachable for easy packing and shipping
- Circular polarization
- Directional
- High power
- Pressurizable
- Mil standards





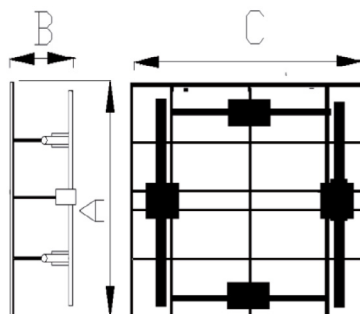
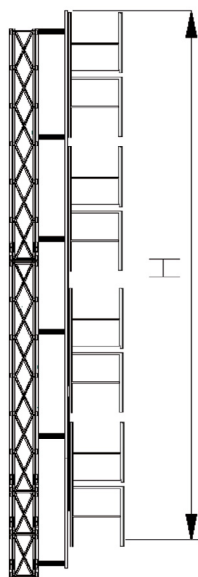
**ELECTRICAL
DATA**

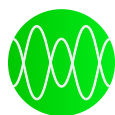
Frequency Range	87.5÷108 MHz
Gain	7.9 ÷ 7.5 dBd
VSWR	≤1.1÷1 Broadband
Half Power Beam	E plane 65° H plane 65°
Front to back Ratio [F/B]	>18 dB
Polarization	Circular
Connector	4x7/16" — 4 x 7/8" — 1 x 1- 5/8" — 1x 3-1/8"
Max Power Rating	4 x 2.5 kW — 4 x 5kW — 10 kW — 20 kW
Input Impedance	50 Ω
Lighting Protection	DC Grounded

**MECHANICAL
DATA**

Size [A x B x C]	2200 x 1056 x 2200mm
Weight	90 Kg
Wind Load	1300 N @ 160 Km/h
Max Wind Speed	Front 220Km/h — Side 200Km/h
Materials	Dipole and screw.in stainless steel, silver plated inner line, hot dip galvanized reflector grid, PTFE insulator.
Mounting	To suit mast 90 or 114 mm
Packing [AxBxC]	2300 x 400 x 2300 mm

NOTE: RADIATION PATTERN, GAIN, F/B AND HALF POWER BEAM WIDTH ANALYZED WITH TOWER INFLUENCE





N° OF BAYS	N° OF FACES	GAIN (DBD)	LENGTH MM
1	1	7.5	2300
	2	4.5	
	3	2.7	
	4	1.5	
2	1	10.5	5300
	2	7.5	
	3	5.7	
	4	4.5	
3	1	12.3	8300
	2	9.2	
	3	7.5	
	4	6.2	
4	1	13.5	11300
	2	10.5	
	3	8.7	
	4	7.5	
5	1	14.5	14300
	2	11.5	
	3	9.7	
	4	8.5	
6	1	15.3	17300
	2	12.2	
	3	10.5	
	4	9.2	
7	1	15.9	20300
	2	13.0	
	3	11.2	
	4	10.0	
8	1	16.5	23300
	2	13.5	
	3	11.5	
	4	10.5	
NOTE: ARRAY GAIN REFERRED TO ANTENNA AVERAGE GAIN			

