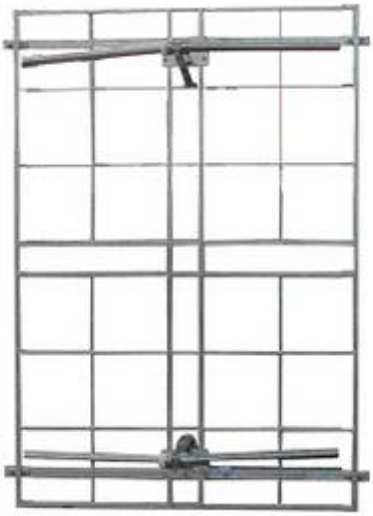
Model : DPA2HT



- **Band II panel**
- **Broadband 87.5÷108 MHz**
- **Demountable**
- **Horizontal polarization**
- **Directional pattern**
- **Suitable as a component in various arrays**

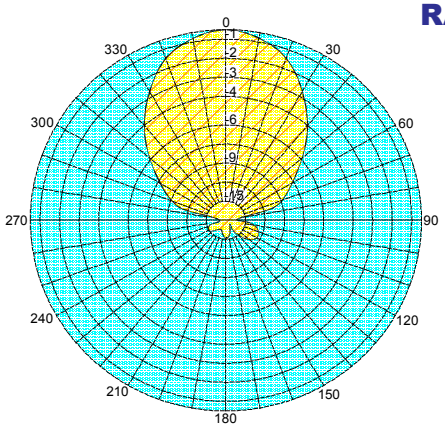
ELECTRICAL DATA

Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connectors	Two input connectors of type 7/8" EIA
Max Power	5KW
VSWR	≤ 1.2:1
Polarization	Horizontal
Gain	6.5 dB (referred to half-wave dipole)
Half power beamwidth:	E plane ± 40° H plane ± 28
Lightning protection	All metal parts DC grounded

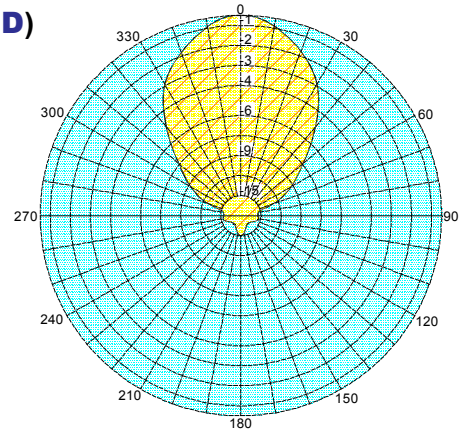
MECHANICAL DATA

Dimensions	2500x1800x1050 mm
Weight	75 Kg
Wind surface	0.75 m^2 (front) 0.18 m^2 (side)
Wind load **Max wind velocity**	148 kg (wind speed at 160 km/h) 200 km/h.
Materials	Reflector: hot dip galvanized steel Radiating dipoles: stainless steel Internal parts: passivated aluminium Radome: fibreglass (option)
Icing protection	Feed point radome (optional)
Radome color **Mounting**	White (optional) With special pipe clamps 50 ÷ 110 mm dia.

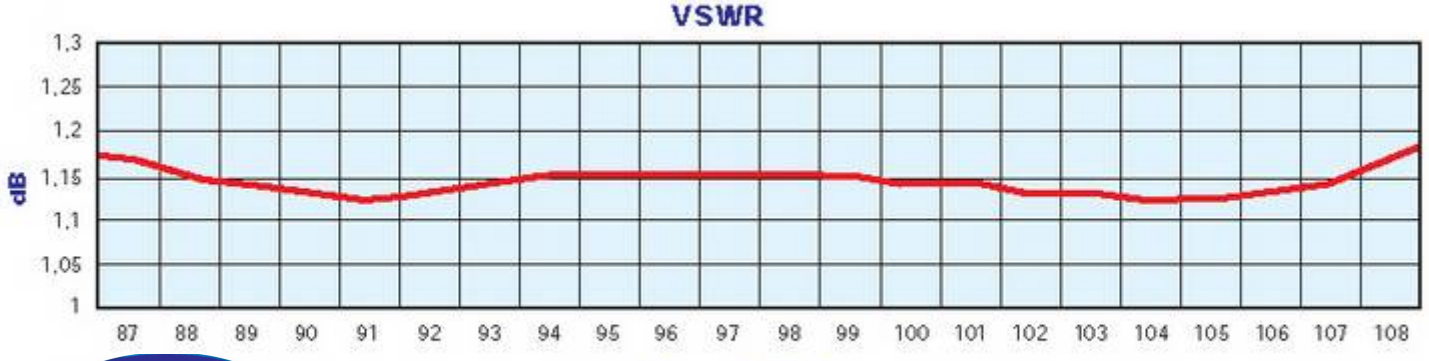
RADIATION PATTERN (MID BAND)



E-plane



H-plane



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Radiations systems with DPA2HT panel

Omnidirectional or directional pattern

Balanced or unbalanced splitting power

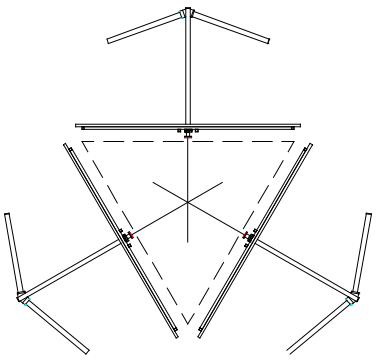
High power systems

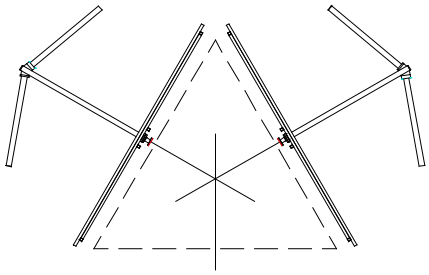
Broadband: 87.5÷108 MHz

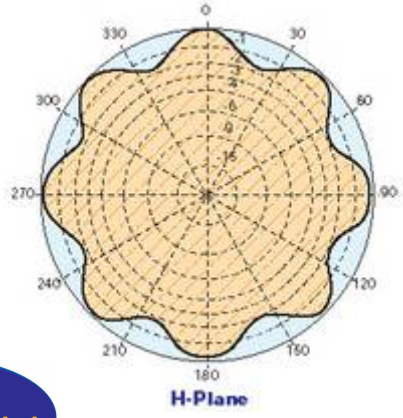
ELECTRICAL DATA	
Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connector	EIA flange according to system power rating
VSWR	≤ 1.2:1 Max
Polarization	Horizontal
Gain	According to requirement
Horizontal pattern	Any type according to requirement
Vertical pattern	Null fill, beam tilt and special requirements to order
Other facilities	The antenna system can be supplied in split feed with two equal half antennas. Each half con accept full power

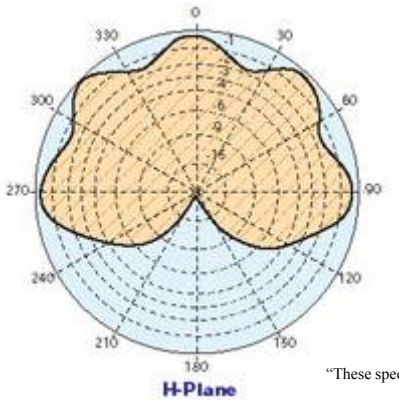
MECHANICAL DATA	
Height of array	Subject to number of bays (refer to table)
Total net weight	Refer to table
Wind load	Refer to table
Pressurizzable	Yes
Radome color	White (optional)
Mounting hardware	Hot dip galvanized steel (option)
Shipping	As required

Horizontal patterns With 2 and 3 faces at 98 MHz









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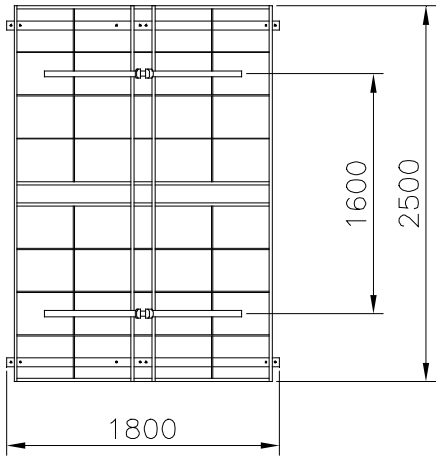
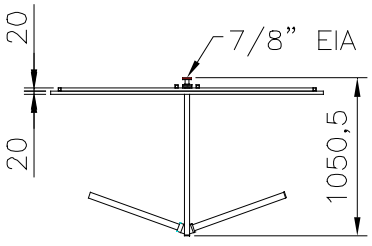
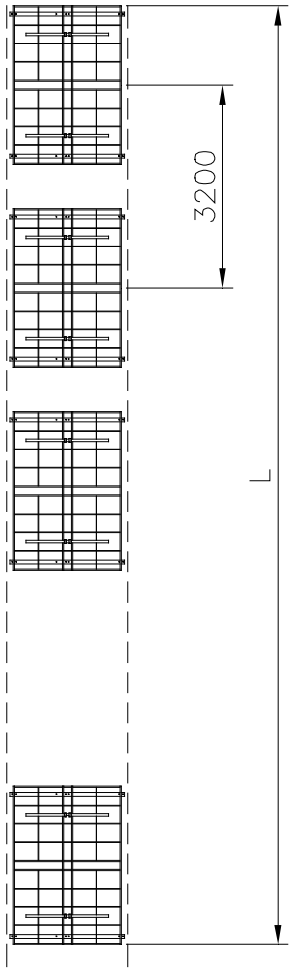
TECHNICAL DATA

Number of bays	Panels per bay	Gain[1]		Weight[2]	Antenna height L	Wind load[3] (v=160 km/h)
		dB	times	kg	m	kg
1	2 3	3.31 1.62	2.14 1.45	150 225	2.5	216 324
2	1 2 3	9.52 6.51 4.83	8.95 4.48 3.04	150 300 450	5.7	216 432 648
4	1 2 3	12.72 9.71 8.01	18.71 9.34 6.32	300 600 900	12.1	432 864 1296
6	1 2 3	14.52 11.52 9.81	28.31 14.19 9.57	450 900 1350	18.5	648 1296 1944
8	1 2 3	15.82 12.81 11.12	38.19 19.01 12.94	600 1200 1800	22.4	864 1728 2592

[1] referred to a half wave dipole. Attenuation of connecting cables not taken into account.
[2] without mounting hardware
[3] according to the tower type, for more details contact us







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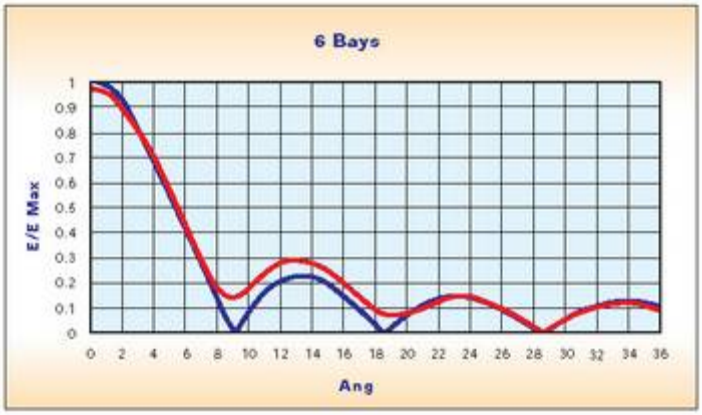
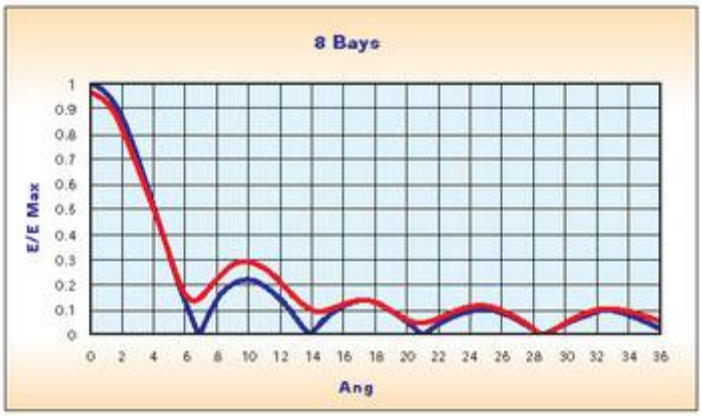
VERTICAL PATTERN

Without null fill

With null fill and beam tilt





- Gain is provided for horizontal polarization.
- If the antenna is side mounted, the supporting structure will have a slight effect on the radiation pattern and VSWR.
- Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation. Contact us for more details of your installation.
- Gain will be reduced if null fill, beam tilt or special wavelength spacing is provided.
- Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.
- Five ft(1.6mt) of pipe required above the top bay and below the bottom bay for to protect from pattern interference by other antennas.
- Antenna wind load is calculated for 100 Mph (160Km/h) per EIA-222-C standard.