AT12-227

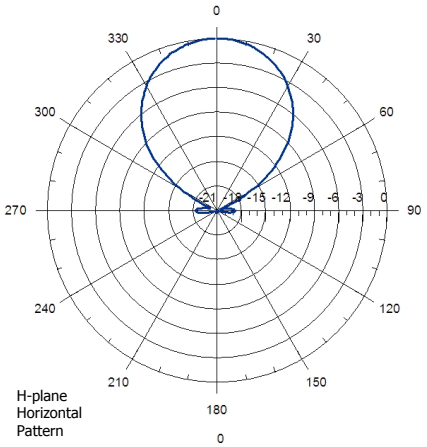
Band II 2 dipoles vertical polarization panel ● Especially suitable for square masts
Light construction

Electrical Specifications

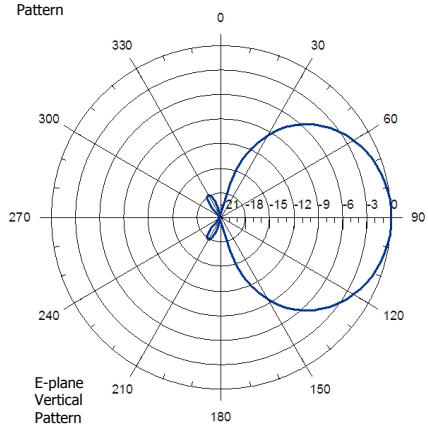
Frequency range	87.5-108 MHz	
Peak gain	7.5 dB (ref. λ/2 dipole)	
3 dB beam width	E-plane: 70º	H-plane: 55º
Polarization	Vertical	
Impedance	50 Ohm	
VSWR	≤ 1.2:1	
Maximum power handling	2.5 kW	
Connector type	DIN 7/16	
Pressurization	Non pressurized	

Mechanical & Environmental Specifications

Materials	Reflector & dipoles Feed points radome	Hot dip galvanized steel ABS / MMA UVA high protection
Dimensions (W x D x H)		2214 x 781 x 1700 mm
Maximum wind speed		200 km/h
Wind load (front)		1300 N (@160 km/h)
Wind load (lateral)		540 N (@160 km/h)
Weight		36 kg
Typical mounting		Square arrangement tower
Clamp type		To Ø 80 – 115 mm pipe
Vertical spacing		3200 mm
Grounding		DC grounded
Temperature range		-40°C to +80°C
Humidity		100%



H-plane
Horizontal
Pattern



E-plane
Vertical
Pattern

Antenna System Characteristics

Number of Bays	Number ant. per bay	Peak gain (dBd)	Weight (kg)	Wind load (@160 km/h)	System height (mm)
1	2	4.5	72	1.9 kN	1700
	3	2.7	108	2.5 kN	
	4	1.5	144	3.1 kN	
2	2	7.5	144	3.8 kN	4900
	3	5.7	216	5.0 kN	
	4	4.5	288	6.2 kN	
4	2	10.5	288	7.6 kN	11300
	3	8.7	432	9.9 kN	
	4	7.5	576	12.6 kN	
6	2	12.3	432	11.4 kN	17700
	3	10.5	648	14.9 kN	
	4	9.3	864	18.8 kN	
8	2	13.5	576	15.1 kN	24100
	3	11.7	864	19.8 kN	
	4	10.5	1152	25.1 kN	

NOTES:

- Radiation patterns and gain values at the table are including the effect of supporting pole
- Null fill, beam tilt, harness & feeder losses NOT INCLUDED.
- Wind load & weight figures without considering cables, splitters & hardware.

FM & DAB

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