Micro Communications, Inc.

made by RYMSA

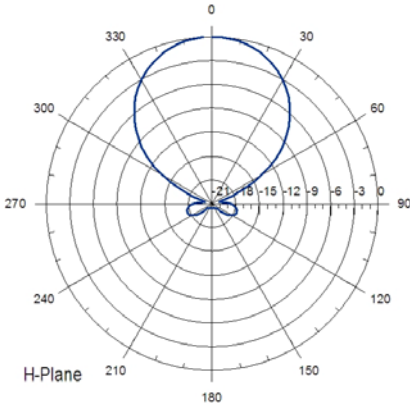
Band III 2 Dipoles Panel
Especially Suitable For Square Masts
Model: AT13-221

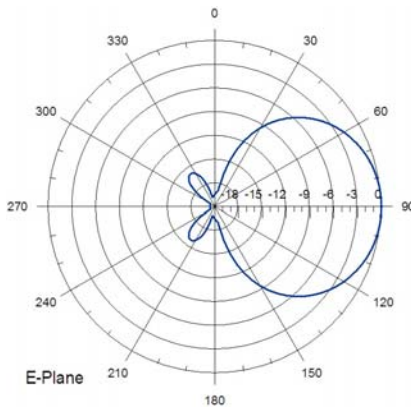
Electrical Specifications

Frequency range	174-230 MHz		
Peak gain	7.5 dB (ref. λ/2 dipole)		
3 dB beam width	E-plane: 69º	H-plane: 59º	
Polarization	Vertical		
Impedance	50 Ohm		
VSWR	≤ 1.15:1		
Maximum power handling peak sync	2 KW	3.5 KW	6 KW
Maximum power handling RMS	1.4 KW	2.5 KW	4.2 KW
Connector type	DIN 7/16	EIA 7/8"	DIN 13/30
Pressurization	Non pressurized	Gas barrier on input connector	

Mechanical & Environmental Specifications

Materials	Reflector & dipoles Feed points radome	Hot dip galvanized steel Fiberglass
Dimensions (W x D x H)		1300 x 500 x 1250 mm
Maximum wind speed		200 Km/h
Wind load (front)		793 N (@160 Km/h)
Wind load (lateral)		392 N (@160 Km/h)
Weight		38 Kg
Typical mounting		Square arrangement tower
Clamp type		To Ø 80 – 115 mm pipe
Vertical spacing		1600 mm
Grounding		DC grounded
Temperature range		-40°C to +80°C
Humidity		100%





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	76	1.2 KN	1250
	3	2.7	114	1.6 KN	
	4	1.5	152	2.0 KN	
2	2	7.5	152	2.4 KN	2850
	3	5.7	228	3.2 KN	
	4	4.5	304	3.9 KN	
4	2	10.5	304	4.7 KN	6050
	3	8.7	456	6.3 KN	
	4	7.5	608	7.9 KN	
6	2	12.3	456	7.1 KN	9250
	3	10.5	684	9.5 KN	
	4	9.3	912	11.8 KN	
8	2	13.5	608	9.5 KN	12450
	3	11.7	912	12.6 KN	
	4	10.5	1216	15.8 KN	

NOTES:
- Table supplies data up to 8 bays only for simplification purposes; systems with more bays are available.
- Null fill, beam tilt, harness & feeder losses NOT INCLUDED.

- Wind load & weight figures without considering cables, splitters & hardware

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