



Micro Communications, Inc.
Microwave A MICROWAVE TECHNIQUES COMPANY

Band III 2 Dipoles Panel

Especially Suitable For Triangular Masts

Model: AT13-223

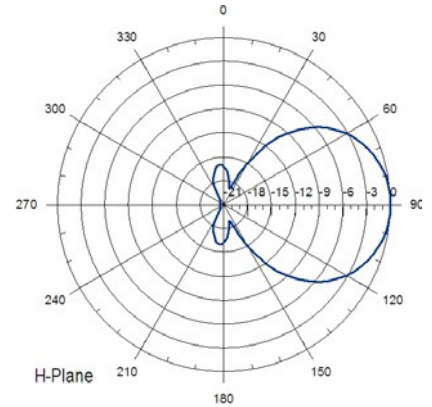
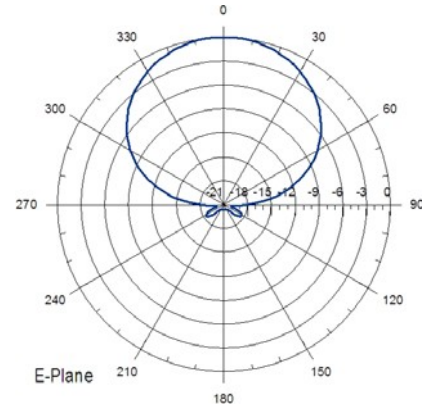
Electrical Specifications

Frequency range	174-230 MHz		
Peak gain	7 dB (ref. $\lambda/2$ dipole)		
3 dB beam width	E-plane: 78° H-plane: 58°		
Polarization	Horizontal		
Impedance	50 Ohm		
VSWR	≤ 1.2:1		
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)	1000 x 530 x 1300 mm	
Maximum wind speed	200 Km/h	
Wind load (front)	664 N (@160 Km/h)	
Wind load (lateral)	488 N (@160 Km/h)	
Weight	36 Kg	
Typical mounting	Triangular 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	4.0	72	1.5 KN	1300
	3	2.2	108	2.2 KN	
2	2	7.0	144	3.0 KN	2900
	3	5.2	216	4.3 KN	
4	2	10.0	288	6.0 KN	6100
	3	8.3	432	8.7 KN	
6	2	11.8	432	9.1 KN	9300
	3	10.0	648	13.0 KN	
8	2	13.0	576	12.1 KN	12500
	3	11.3	864	17.4 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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