



Micro Communications, Inc.

Microwave A MICROWAVE TECHNIQUES COMPANY

Band III 4 Dipoles Panel

Especially Suitable For Triangular Masts

Model: AT13-243

Electrical Specifications

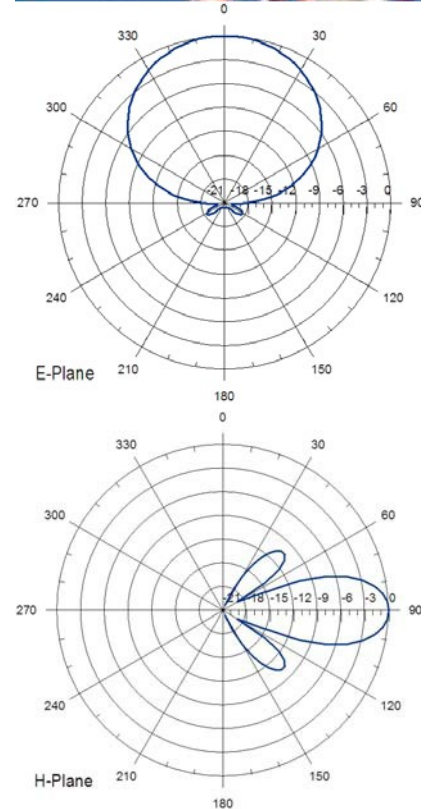
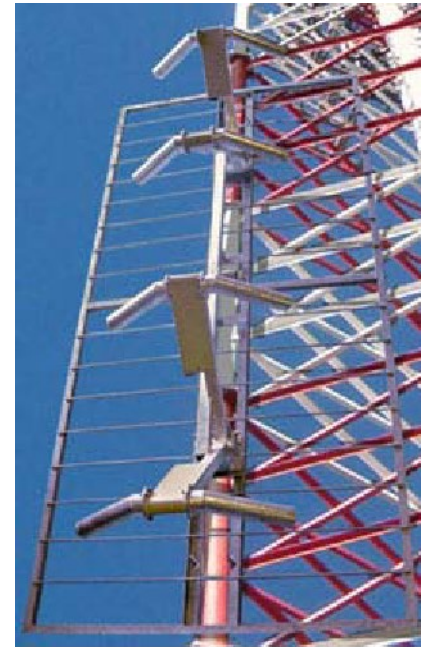
Frequency range	174-230 MHz		
Peak gain	10 dB (ref. $\lambda/2$ dipole)		
3 dB beam width	E-plane: 78° H-plane: 26°		
Polarization	Horizontal		
Impedance	50 Ohm		
VSWR	≤ 1.1:1		
Maximum power handling peak sync	2 KW	3.5 KW	6 KW
Maximum power handling RMS	1.4 KW	2.5 KW	4.2 KW
Connector type	DIN 7/16	EIA 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 2900 mm	
Maximum wind speed	200 Km/h	
Wind load (front)	1465 N (@160 Km/h)	
Wind load (lateral)	976 N (@160 Km/h)	
Weight	65 Kg	
Typical mounting	Triangular 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%	

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	7.0	130	3.2 KN	2900
	3	5.2	195	4.6 KN	
2	2	10.0	260	6.3 KN	6100
	3	8.2	390	9.2 KN	
4	2	13.0	520	12.6 KN	12500
	3	11.3	780	18.5 KN	
6	2	14.8	780	18.9 KN	18900
	3	13.0	1170	27.7 KN	
8	2	16.0	1040	25.2 KN	25300
	3	14.3	1560	37.0 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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