



Micro Communications, Inc.
MICROWAVE A MICROWAVE TECHNIQUES COMPANY

Band III 2 Dipoles Panel Especially Suitable For Square Masts Model: AT13-220

Electrical Specifications

Frequency range	174-230 MHz		
Peak gain	7.5 dB (ref. $\lambda/2$ dipole)		
3 dB beam width	E-plane: 69°	H-plane: 59°	
Polarization	Horizontal		
Impedance	50 Ohm		
VSWR	$\leq 1.15:1$		
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	

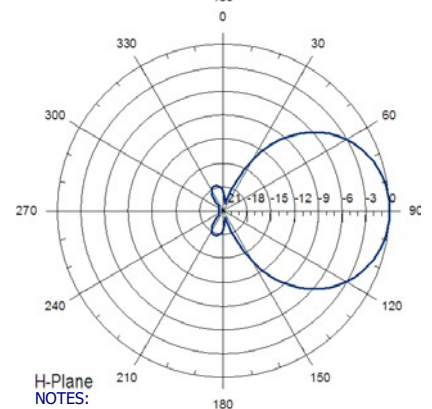
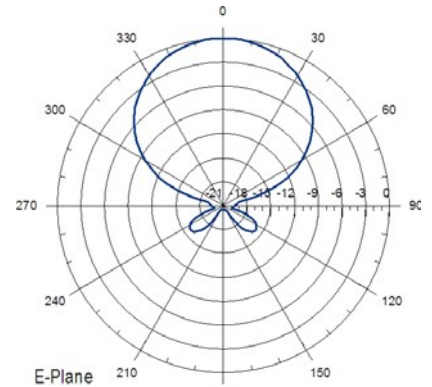


Mechanical & Environmental Specifications

Materials	Reflector & dipoles Feed points radome	Hot dip galvanized steel Fiberglass
Dimensions (W x D x H)		1250 x 500 x 1300 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 \varnothing 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	5.5	76	1.2 KN	1300
	3	3.7	114	1.6 KN	
	4	2.5	152	2.0 KN	
2	2	8.5	152	2.4 KN	2900
	3	6.7	228	3.2 KN	
	4	5.5	304	3.9 KN	
4	2	11.5	304	4.7 KN	6100
	3	9.7	456	6.3 KN	
	4	8.5	608	7.9 KN	
6	2	13.3	456	7.1 KN	9300
	3	11.5	684	9.5 KN	
	4	10.3	912	11.8 KN	
8	2	14.5	608	9.5 KN	12500
	3	12.7	912	12.6 KN	
	4	11.5	1216	15.8 KN	



H-Plane 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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