



Micro Communications, Inc.
A MICROWAVE TECHNIQUES COMPANY

Band I 2 Dipoles Panel

Especially Suitable For Square Masts

Model: AT11-220

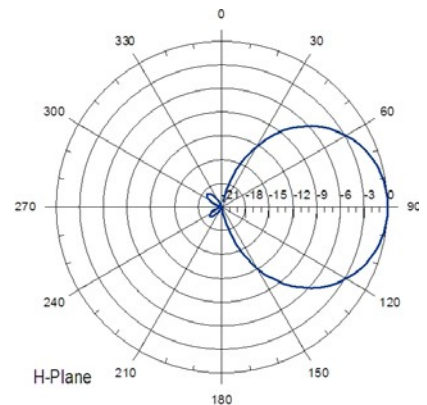
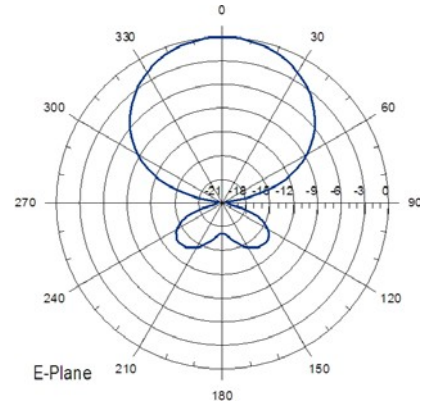
Electrical Specifications

Frequency range	54 – 88 MHz	
Channels	2 – 4 FCC	3 – 5 FCC 4 – 6 FCC
Peak gain	7.5 dB (ref. $\lambda/2$ dipole)	
3 dB beam width	E-plane: 72°	H-plane: 62°
Polarization	Horizontal	
Impedance	50 Ohm	
VSWR	≤ 1.15:1	
Maximum power handling peak sync (per connector)	6 KW (3 KW)	
Connector type (2 per antenna)	2 x DIN 7/16	2 x EIA 7/8"
Pressurization	Non pressurized	Gas barrier on input connector



Mechanical & Environmental Specifications

Channels	2 – 4 FCC	3 – 5 FCC	4 – 6 FCC
Materials	Hot dip galvanized steel Fiberglass		
Dimensions (W x D x H)	2730 x 1213 x 3630 mm	2730 x 1087 x 3380 mm	2220 x 1000 x 3000 mm
Maximum wind speed	200 Km/h		
Wind load @ 160 Km/h (front)	1800 N	1747 N	1600 N
Wind load @ 160 Km/h (lateral)	925 N	905 N	790 N
Weight	102	97	85
Typical mounting	Square arrangement tower		
Vertical spacing between dipoles	2550 mm	2310 mm	2005 mm
Grounding	DC grounded		
Temperature range	-40°C to +80°C		
Humidity	100%		



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

Antenna System Characteristics (Channel 2)

Number of Bays	Number ant. per bay	Peak gain (dBd)	Weight (Kg)	Wind load (@160 Km/h)	System height (mm)
1	2	5.5	204	2.7 KN	3630
	3	3.7	306	3.7 KN	
	4	2.5	408	4.6 KN	
2	2	8.5	408	5.5 KN	8730
	3	6.7	612	7.3 KN	
4	4	5.5	816	9.1 KN	18930
	2	11.5	816	10.9 KN	
	3	9.8	1224	14.6 KN	
6	4	8.5	1632	18.2 KN	29130
	2	13.3	1224	16.4 KN	
	3	11.5	1836	21.9 KN	
8	4	10.3	2448	27.3 KN	39330
	2	14.5	1632	21.8 KN	
	3	12.8	2448	29.2 KN	
	4	11.5	3264	36.4 KN	



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