



Micro Communications, Inc.  
 Microwave A MICROWAVE TECHNIQUES COMPANY

# Band II 2 Dipoles Panel

## Especially Suitable For Square Masts

### Model: AT12-220

#### Electrical Specifications

Frequency range	87.5-108 MHz		
Peak gain	7.5 dB (ref. $\lambda/2$ dipole)		
3 dB beam width	E-plane: 70°	H-plane: 55°	
Polarization	Horizontal		
Impedance	50 Ohm		
VSWR	≤ 1.2:1		
Maximum power handling	2.5 KW	5 KW	7 KW
Connector type	DIN 7/16	EIA 7/8"	DIN 13/30
Pressurization	Non pressurized	Gas barrier on input connector	
	Fully pressurized as an option		

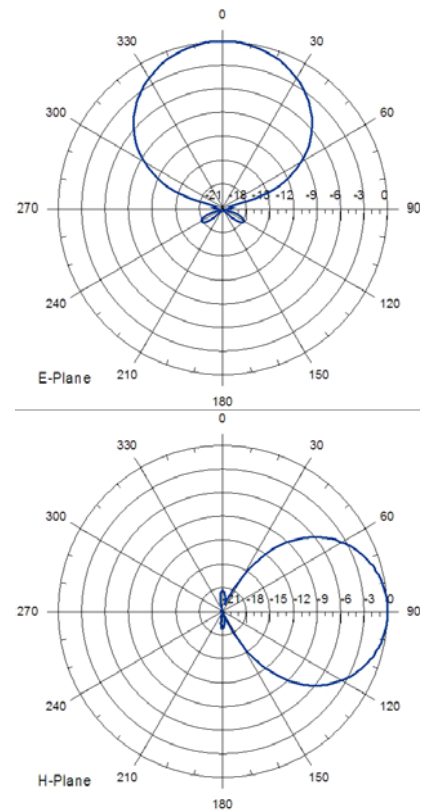


#### Mechanical & Environmental Specifications

Materials	Reflector & dipoles Feed points radome	Hot dip galvanized steel Fiberglass
Dimensions (W x D x H)	1700 x 781 x 2214 mm	
Maximum wind speed	200 Km/h	
Wind load (front)	1626 N (@160 Km/h)	
Wind load (lateral)	740 N (@160 Km/h)	
Weight	58 Kg	
Typical mounting	Square 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	6.0	116	2.4 KN	2214
	3	4.2	174	3.1 KN	
	4	3.0	232	3.9 KN	
2	2	9.0	232	4.7 KN	5414
	3	7.2	348	6.2 KN	
	4	6.0	464	7.8 KN	
4	2	12.0	464	9.5 KN	11814
	3	10.3	696	12.4 KN	
	4	9.0	928	15.7 KN	
6	2	13.8	696	14.2 KN	18214
	3	12.0	1044	18.6 KN	
	4	10.8	1392	23.5 KN	
8	2	15.0	928	18.9 KN	24614
	3	13.3	1392	24.8 KN	
	4	12.0	1856	31.4 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



Micro Communications, Inc.  
 Microwave A MICROWAVE TECHNIQUES COMPANY

Microwave Techniques, LLC | 28 Sanford Drive, Gorham, ME 04038

Email: [sales@microwavetechniques.com](mailto:sales@microwavetechniques.com) | Phone: 1-207-854-1700