



Micro Communications, Inc.  
A MICROWAVE TECHNIQUES COMPANY

# Band II "V" Dipoles Antenna Side-Mount Circular Polarization For Extreme Weather Conditions Model: AT12-201

## Electrical Specifications

Frequency range	87.5-108 MHz (3 different models. Specify a 7 MHz range)		
Peak gain	-0.1 dB (ref. $\lambda/2$ dipole, free space) 1.1 dB (ref. $\lambda/2$ dipole, with pole)		
3 dB beam width	Horizontal: 268°	Vertical: 97°	
Polarization	Circular		
Impedance	50 Ohm		
VSWR	$\leq 1.15:1$ on a 7 MHz range		
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	

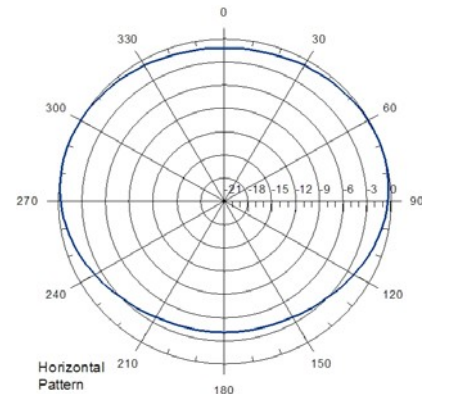


## Mechanical & Environmental Specifications

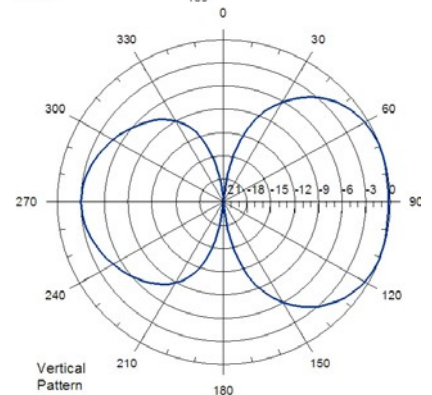
Materials	Dipoles Feed points radome	Hot dip galvanized steel Fiberglass
Dimensions (W x D x H)		900 x 2084 x 900 mm
Maximum wind speed		200 km/h
Wind load		495 N (@160 Km/h)
Weight		25 Kg
Clamp type		To $\varnothing$ 80 – 115 mm pipe
Vertical spacing		$0.8 \lambda - 0.9 \lambda$ typical
Grounding		DC 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	1	1.1	25	0.5 KN	900
2	1	4.1	50	1.0 KN	3509
4	1	7.1	100	2.0 KN	8726
6	1	8.9	150	3.0 KN	13943
8	1	10.1	200	4.0 KN	19161
10	1	11.1	250	5.0 KN	24381
12	1	11.9	300	6.0 KN	29600



Horizontal Pattern



Vertical Pattern

### NOTES:

- Radiation patterns included and antenna system peak gain values calculated with pole

- Null fill, beam tilt, harness & feeder losses NOT INCLUDED

- Wind load & weight figures without considering cables, splitters &



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