



Micro Communications, Inc.



# Band II "V" Dipoles Antenna Side-Mount Circular Polarization Model: AT12-202

## Electrical Specifications

Frequency range	87.5-108 MHz		
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	$\leq 1.4:1$		
Maximum power handling	2.5 KW	5 KW	7 KW
Connector type	DIN 7/16	EIA 7/8"	DIN 13/30
Pressurization	Fully pressurized		



## Mechanical & Environmental Specifications

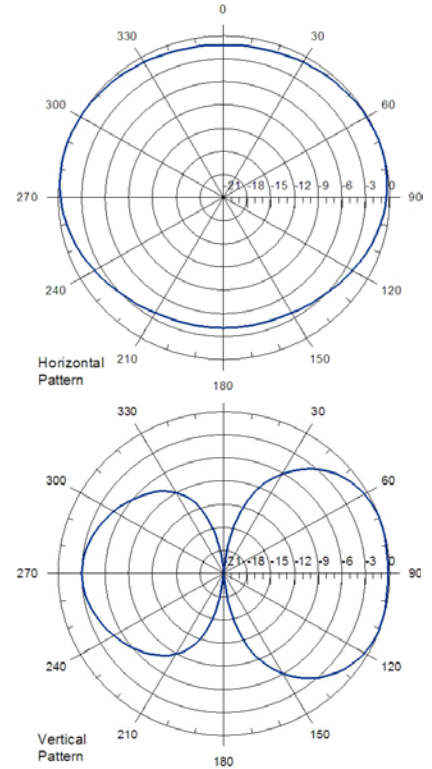
Materials	Hot dip galvanized steel
Dimensions (W x D x H)	1191 x 1528 x 1191 mm
Maximum wind speed	200 km/h
Wind load	305 N (@160 Km/h)
Weight	20 Kg
Clamp type	To $\varnothing$ 80 – 115 mm pipe
Vertical spacing	$0.8 \lambda$ – $0.9 \lambda$ typical
Grounding	DC grounded
Temperature range	-40°C to +80°C
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	20	0.3 KN	1191
2	1	4.1	40	0.6 KN	3800
4	1	7.1	80	1.2 KN	9017
6	1	8.9	120	1.8 KN	14234
8	1	10.1	160	2.4 KN	19452
10	1	11.1	200	3.0 KN	24669
12	1	11.9	240	3.6 KN	29886

## Optional Accessories

- Tuned to 10 MHz bandwidth with VSWR 1.2:1
- Feed points radome
- Non pressurized model
- Stainless steel construction



### 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 & hardware.



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Micro Communications, Inc - A Mega Industries Company  
28 Sanford Dr. Gorham Maine 04038 Phone: 207.854.1700 Fax: 207.854.2287  
Email: sales@megaind.com Web: www.megaind.com