

DAB Dipole Antenna Side-Mount Installation For Extreme Weather Conditions Model: AT14-522

Electrical Specifications

Frequency range	216-240 MHz
Peak gain	0 dB (ref. $\lambda/2$ dipole) 2.2 dB (ref. $\lambda/2$ dipole, with pole)
3 dB beam width	E-plane: 79° H-plane: 200°
Polarization	Vertical
Impedance	50 Ohm
VSWR	$\leq 1.2:1$
Maximum power handling RMS	1.5 KW
Connector type	DIN 7/16
Pressurization	Non pressurized

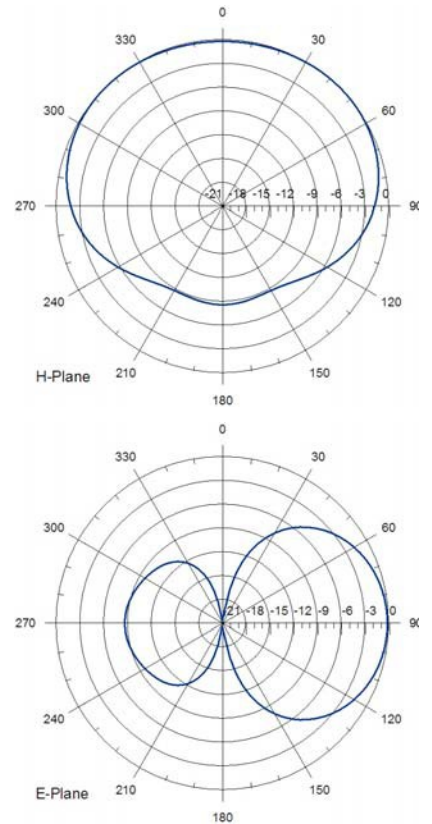


Mechanical & Environmental Specifications

Materials	Dipole Feed points radome	Hot dip galvanized steel Fiberglass
Dimensions (W x D x H)		50 x 460 x 560 mm
Maximum wind speed		200 Km/h
Wind load (front)		38 N (@160 Km/h)
Wind load (lateral)		128 N (@160 Km/h)
Weight		12 Kg
Clamp type		To \varnothing 80 – 100 mm pipe
Vertical spacing		0.8 λ – 0.9 λ 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	2.2	12	0.13 KN	560
2	1	5.2	24	0.26 KN	1678
4	1	8.2	48	0.51 KN	3915
6	1	10.0	73	0.77 KN	6152
8	1	11.2	96	1.02 KN	8389
10	1	12.2	120	1.27 KN	10622
12	1	13.0	144	1.53 KN	12858



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 &