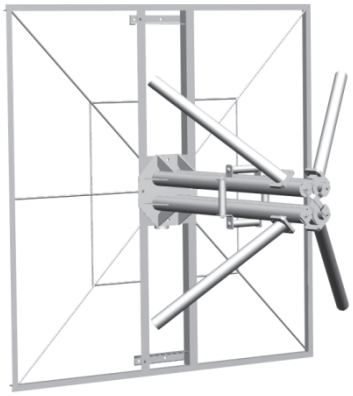
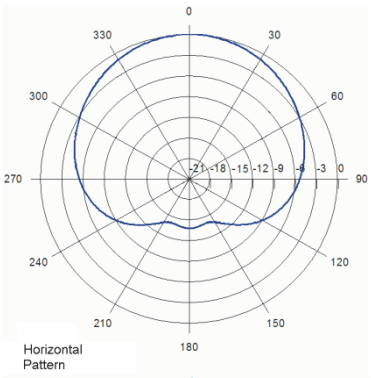
AT12-302REF

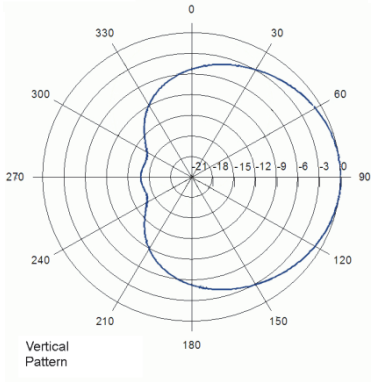
Band II 2 crossed dipoles circular/elliptical polarization antenna system • Side-mounted installation

Electrical Specifications

Frequency range	87.5-108 MHz		
Peak gain	4.0 dB (ref. λ/2 dipole)		
3 dB beam width	Horizontal: 128º	Vertical: 128º	
Polarization	Circular / Elliptical		
Impedance	50 Ohm		
VSWR	≤1.12:1		
Maximum power handling (per connector)	5 kW (2.5 kW)	10kW (5 kW)	14 kW (7 kW)
Connector type (2 per antenna)	2 x DIN 7/16	2 x EIA 7/8"	2 x DIN 13/30
Pressurization	Non pressurized	Gas barrier on input connector Fully pressurized as an option	







Mechanical & Environmental Specifications

Materials	Hot dip galvanized steel
Dimensions (W x D x H)	1500 x 1105 x 1500 mm
Maximum wind speed	200 km/h
Wind load (front)	350 N (@160 km/h)
Wind load (lateral)	315 N (@160 km/h)
Weight	35 kg
Clamp type	To Ø 80 – 115 mm pipe
Vertical spacing	2400mm 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	4.0	35	0.35 kN	1500
2	1	7.0	70	0.7 kN	3300
4	1	10.0	140	1.4 kN	8700
6	1	11.7	210	2.11 kN	13500
8	1	13.0	280	2.8 kN	18300
10	1	14.0	350	3.5 kN	23100
12	1	14.7	360	4.2 kN	27900

The above specified gain must be understood for circular polarization

NOTES:

- Radiation patterns and gain values at the table are including the effect of supporting pole
- Null fill, beam tilt, harness & feeder losses NOT INCLUDED
- Wind load & weight figures without considering cables, splitters & hardware.

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