

Microwave antenna

AL1-80/APR

ALCOMA

Microwave antenna description

High Performance 0.35 m antenna for ALCOMA point to point radios.

General parameters

Diameter	0.35 m (1 ft.)
Feeder	single polarized
Input flange	circular, hole diameter 3.2 mm
Polarization	horizontal or vertical
Environmental temperature	-45 °C až +55 °C
Color	light gray
Radom color	white
Radom material	plastic (ABS)

Electrical parameters

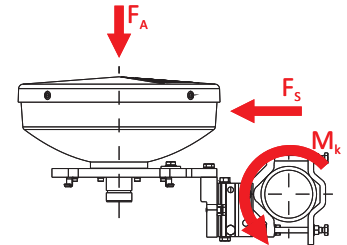
Frequency band	71-76 / 81-86 GHz
Gain 73.5 GHz	46 dBi
83.5 GHz	47 dBi
3 dB - BW	0.8° (H/ V)
Return loss	> 1.20 (20 dB)
F/B ratio	54 dB
XPD	32 dB
Class	2 ETSI EN 302 217-4-2



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Mechanical parameters

Wind speed	max 30 m/s (110 km/h)
Wind speed non destruct	max 55 m/s (200 km/h)
Net weight	8.1 kg
Pipe diameter	42 - 120 mm
Fine adjust Azimuth	$\pm 20^\circ$
Fine adjust Elevation	$\pm 20^\circ$



Forces and twisting moment due to wind

Wind speed	30 m/s (110 km/h)	55 m/s (200 km/h)
F_a	90 N	270 N
F_s	30 N	85 N
M_k	25 Nm	70 Nm
Icing thickness 25 mm (led 7kN/m ³)	70 N	

Outlines

