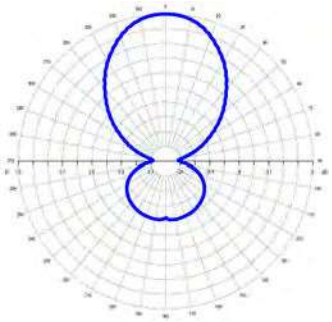
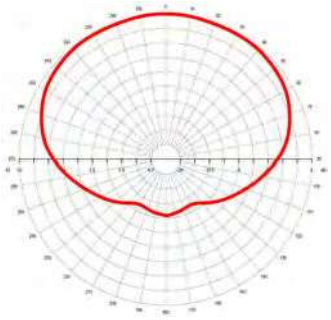
ELECTRICAL FEATURES

WORKING BAND: 87.5÷108 MHz
BANDWIDTH: FM band
GAIN: 1.5 dBd (3.7 dBi)
VSWR: ≤ 1.28:1 (-18 dB)
POLARIZATION: vertical
IMPEDANCE: 50 Ohm unbalanced
HALF POWER BEAMWIDTH:
E-Plane - 71°
H-Plane - 192°
LIGHTNING PROTECTION: all metal parts DC grounded including inner conductors
AVAILABLE VERSIONS AND CODE:
ASD0102211 - EIA 7/8" flange - max 5000 W
ASD0102212 - DIN 7/16 fem. connector - max 3000 W
ASD0102213 - N fem. connector - max 800 W



E-Plane



H-Plane

MECHANICAL FEATURES

MATERIALS: body in treated aluminium, teflon isolators, silicon O-Rings, hot dip galvanized steel bolts
MOUNTING: directly on supporting structure
MOUNTING BRACKETS: included for Ø 40÷104mm. pipe
ICING PROTECTION: optional ABS radome (code XRASD)
TREATMENTS: military grade treated (MIL-C-4451) silver plated internal lines and connector
PRESSURIZZATION: 5.0 psi
ANTENNA DIMENSIONS: 1337x965x200 mm
WEIGHT: 7 Kg
WIND SURFACE: 0.07 m^2 front - 0.11 m^2 side
WIND LOAD (at 160Km/h and 30° C air temperature):
5.53 Kg front - 9.47 Kg side
SURVIVAL WIND: 220Km/h
PACKING DIMENSIONS:
box 1210x310x150 mm - 10 Kg gross

ARRAY DATA

BAY	PANEL PER BAY	SYSTEM GAIN (dBd)[1]	GAIN TIMES[1]	WEIGHT (Kg)[2]	SYSTEM HEIGHT (mt)	WIND LOAD (Kg)[3]
2	1	5.49	3.54	25	3.9	18.9
4	1	8.5	7.08	45	9.1	37.9
6	1	9.74	9.42	65	14.3	56.8
8	1	11.48	14.06	90	19.5	75.8
12	1	13.24	21.09	130	30	113.4

1 - gain referred at mid band - 1st null filling and electrical tilt not take into account
2 - mounting hardware not take into account
3 - 160Km/h wind and 30° C air temperature

Antenna a dipolo in alluminio saldato.
Irradiazione pressoché omnidirezionale.
Adatta per sistemi FM collineari.
Smontabile - Pressurizzabile
Banda larga 87.5 ÷ 108 MHz

Dipole antenna in welded aluminium.
Omnidirectional pattern with preferred direction.
Suitable for FM stacked-array antenna system.
Demountable - Pressurizable
Broadband 87.5 ÷ 108 MHz

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aldena
The Reliable Antennas