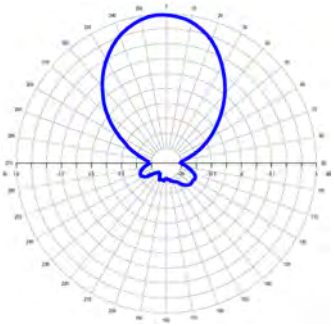
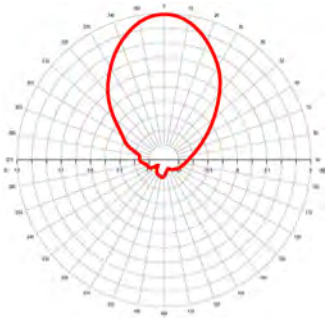
ELECTRICAL DATA

WORKING BAND: 87.5÷108 MHz
BANDWIDTH: FM band
GAIN: 7.5 dBd (9.7 dBi)
VSWR (worst value): ≤ 1.2:1 (-20.8 dB)
POLARIZATION: vertical (or horizontal)
IMPEDANCE: 50 Ohm unbalanced
HALF POWER BEAMWIDTH:
E-Plane - 70°
H-Plane - 64°
LIGHTNING PROTECTION: all metal parts DC grounded including inner conductors
AVAILABLE VERSIONS AND CODE:
ADP0102415 - EIA 7/8" flange - max 5000 W
ADP0102416 - DIN 7/16 fem. connector - max 3000 W
ADP0102417 - N fem. connector - max 800 W



E-Plane



H-Plane

MECHANICAL DATA

MATERIALS:
dipoles, reflecting grid and internal lines in aluminium, hot dip galvanized steel bolts, teflon isolators, silicon O-Rings
MOUNTING: directly on supporting structure
MOUNTING BRACKETS: optional (code XZACP) for Ø 50÷114mm. pipe
ICING PROTECTION:
optional ABS radome (2 x code XRASD)
TREATMENTS: dipoles military grade treated MIL-C-5541, silver-plated internal lines and connector
PRESSURIZATION: 5.0 psi
ANTENNA DIMENSIONS: 2200x2200x1070 mm
WEIGHT: 35 Kg
WIND SURFACE: 0.9 m^2 front - 0.18 m^2 side
WIND LOAD (at 160Km/h and 30° C air temperature):
156.23 Kg front - 20.31 Kg side
SURVIVAL WIND: 180Km/h
PACKING DIMENSIONS:
reflecting grid: box 2250x1150x150 mm
dipoles: box 1780x380x150 mm
50 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	10.5	11.22	98	4.9	312.5
4	1	13.5	22.39	193	10.3	624.9
6	1	15.3	33.84	292	15.7	937.4
8	1	16.5	44.67	399	21.1	1249.8
12	1	18.3	67.61	596	31.9	1874.8
1	2	5.3	3.39	98	2.2	176.5
2	2	8.3	6.76	193	4.9	353.1
4	2	11.3	13.49	399	10.3	706.2
6	2	13.1	20.42	596	15.7	1059.2
8	2	14.3	26.92	785	21.1	1412.3
12	2	17.1	51.29	1183	31.9	2118.5
1	3	3.6	2.29	146	2.2	196.9
2	3	6.6	4.57	292	4.9	393.7
4	3	9.6	9.12	596	10.3	787.4
6	3	11.4	13.8	889	15.7	1181.1
8	3	12.6	18.2	1183	21.1	1574.8
12	3	14.4	27.54	1774	31.9	2362.2
1	4	2.6	1.82	193	2.2	196.9
2	4	5.6	3.63	399	4.9	393.7
4	4	8.6	7.24	785	10.3	787.4
6	4	10.4	10.97	1183	15.7	1181.1
8	4	11.6	14.45	1999	21.1	1574.8
12	4	13.4	21.88	2394	31.9	2362.2

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 pannello con doppio dipolo e griglia riflettente interamente in alluminio saldato.
Irradiazione direttiva.
Adatta per sistemi FM collineari o per accoppiamenti a 90°.
Banda larga 87.5 ÷ 108 MHz
Smontabile.
Pressurizabile.

Panel antenna with double dipole and reflecting grid wholly in welded aluminium.
Directional irradiation pattern.
Suitable for FM arrays or 90° coupling.
Broadband 87.5 ÷ 108 MHz
Demountable.
Pressurizable.

Issue 01/13

The Reliable Antennas