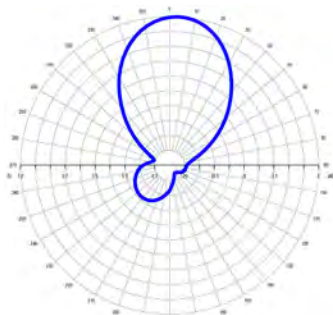## ELECTRICAL FEATURES

WORKING BAND: 87.5÷108 MHz
BANDWIDTH: FM band
GAIN: 4.5 dBd (6.7 dBi)
VSWR: ≤ 1.23:1 (-19.7dB)
POLARIZATION: vertical (horizontal upon request)
IMPEDANCE: 50 Ohm unbalanced
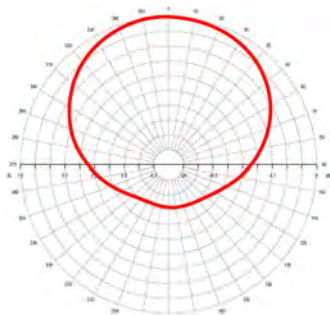**HALF POWER BEAMWIDTH:**
E-Plane - 64°
H-Plane - 140°
LIGHTNING PROTECTION: all metal parts DC grounded including inner conductors
AVAILABLE VERSIONS AND CODE:
ASR0302318 - EIA 1 5/8" flange- max 12000W

E-Plane   *H-Plane*

MECHANICAL FEATURES

MATERIALS: hot dip galvanized steel bolts, body and lines in treated aluminium, teflon isolators, silicon O-Rings
MOUNTING: directly on supporting structure
MOUNTING BRACKETS: included for Ø 90÷150mm. pipe
TREATMENTS: silver plated internal lines and connector, antenna military grade MIL-C-5541
PRESSURIZZATION: 5.0 psi
ANTENNA DIMENSIONS: 2050x1870x200 mm
WEIGHT: 30 Kg
WIND SURFACE: 0.11 m^2 front - 0.44 m^2 side
WIND LOAD (at 160Km/h and 30° C air temperature):
9.13 Kg front - 36.08 Kg side
SURVIVAL WIND: 180Km/h
PACKING DIMENSIONS:
box 2150x250x250 mm - 35 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	7.15	5.12	86	4.7	72.2
4	1	10.01	10.02	162	9.9	144.3
6	1	11.83	15.24	238	15.1	216.5
8	1	13.07	20.28	332	20.3	288.6
12	1	14.81	25.18	476	30.8	433.0

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 yagi High Power a 3 elementi in alluminio.
Irradiazione direttiva.
Adatta per sistemi FM collineari in alta potenza.
Smontabile - Pressurizzabile
Banda larga 87.5 ÷ 108 MHz

Yagi 3 elements aluminium High Power antenna.
Directional radiation pattern.
Suitable for High Power FM
stacked-array antenna system.
Demountable - Pressurizable
Broadband 87.5 ÷ 108 MHz

Issue 01/13

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The Reliable Antennas