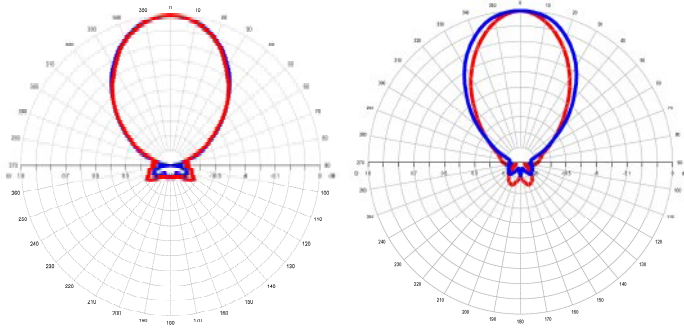


ELECTRICAL FEATURES

WORKING BAND: 87.5÷108 MHz
BANDWIDTH: FM band
GAIN: 7.7 dBd (9.9 dBi) linear polarization
 4.6 dBd (6.8 dBi) circular polarization
VSWR : ≤ 1.16:1 (-22.6 dB) linear polarization
 ≤ 1.12:1 (-24.904 dB) circular polarization
POLARIZATION: mixed, circular, vertical, horizontal
IMPEDANCE: 50 Ohm balanced
HALF POWER BEAMWIDTH:
 Vertical component - E-Plane - 63° - H-Plane - 53°
 Horizontal component - E-Plane - 68° - H-Plane - 65°
LIGHTNING PROTECTION: all metal parts DC grounded
AVAILABLE VERSIONS AND CODE:
 AQP0402420 - 4 x EIA 7/8" - 4 x 5000 W
 AQP0402421 - 4 x DIN 7/16 female - 4 x 3300 W

horizontal component

vertical component



H-Plane and E-Plane

H-Plane and E-Plane

MECHANICAL FEATURES

MATERIALS: dipoles, reflecting grid and bolts in hot dip galvanized steel, internal lines in aluminium, teflon isolators, silicon O-Rings, st. steel
MOUNTING: directly on supporting structure via 16 holes Ø11mm
MOUNTING BRACKETS: optional (cod. XAVP) for Ø 40÷114mm. pipe
ICING PROTECTION: ABS radome included
TREATMENTS: dipoles and reflecting grid in hot dip galvanized steel, silver plated connectors
ANTENNA DIMENSIONS: 2200x2200x850 mm
WEIGHT: 93 Kg
WIND SURFACE: 1.00 m² front - 0.59 m² side
WIND LOAD (at 160Km/h and 30° C air temperature):
 157.96 Kg front - 94.18 Kg side
SURVIVAL WIND: 220Km/h
PACKING DIMENSIONS:
 wooden cage (ISMP-15): 2300x2300x400 mm - 170Kg gross

ARRAY DATA

| BAY | PANEL PER BAY | SYSTEM GAIN (dBd) ¹ | GAIN TIMES ² | WEIGHT (Kg) ² | SYSTEM HEIGHT (mt) | WIND LOAD (Kg) ³ |
|-----|---------------|--------------------------------|-------------------------|--------------------------|--------------------|-----------------------------|
| 2 | 1 | 7.99 | 6.3 | 225 | 4.9 | 312.5 |
| 4 | 1 | 11.0 | 12.59 | 465 | 10.3 | 624.9 |
| 6 | 1 | 12.78 | 18.97 | 698 | 15.7 | 937.4 |
| 8 | 1 | 14.01 | 25.18 | 934 | 21.1 | 1249.8 |
| 1 | 2 | 2.62 | 1.83 | 225 | 2.2 | 176.5 |
| 2 | 2 | 5.63 | 3.66 | 465 | 4.9 | 353.1 |
| 4 | 2 | 8.64 | 7.31 | 934 | 10.3 | 706.2 |
| 6 | 2 | 10.4 | 10.95 | 1403 | 15.7 | 1059.2 |
| 8 | 2 | 11.65 | 14.62 | 1875 | 21.1 | 1412.3 |
| 1 | 3 | 1.5 | 1.41 | 343 | 2.2 | 196.9 |
| 2 | 3 | 4.51 | 2.82 | 698 | 4.9 | 393.7 |
| 4 | 3 | 7.53 | 5.66 | 1403 | 10.3 | 787.4 |
| 6 | 3 | 9.29 | 8.49 | 2115 | 15.7 | 1181.1 |
| 8 | 3 | 10.54 | 11.32 | 2820 | 21.1 | 1574.8 |
| 1 | 4 | 0.19 | 1.04 | 465 | 2.2 | 196.9 |
| 2 | 4 | 3.2 | 2.09 | 934 | 4.9 | 393.7 |
| 4 | 4 | 6.21 | 4.18 | 1875 | 10.3 | 787.4 |
| 6 | 4 | 7.97 | 6.27 | 2820 | 15.7 | 1181.1 |
| 8 | 4 | 9.22 | 8.36 | 3770 | 21.1 | 1574.8 |

1 - gain referred at mid band -1° 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 4 dipoli doppia polarizzazione.
 Adatta per sistemi FM collineari o accoppiamenti a 90°.
 Smontabile.
 Banda larga 87.5 ÷ 108 MHz.

Antenna panel with 4 dipoles dual polarization.
 Directional radiation pattern.
 Suitable for FM stacked-array or 90° coupling antenna system.
 Demountable
 Broadband 87.5 ÷ 108 MHz.

