

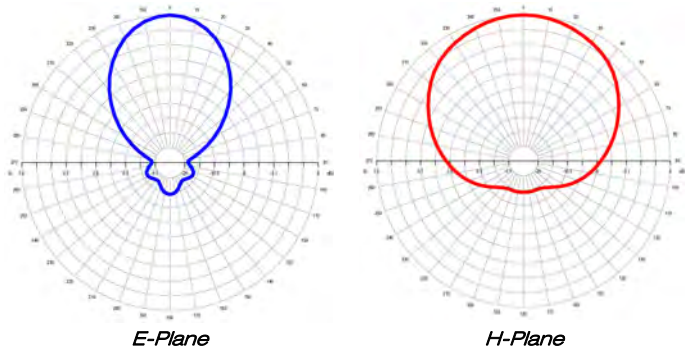
## ELECTRICAL FEATURES

**WORKING BAND:** 87.5÷108 MHz  
**BANDWIDTH:** 0.2 MHz  
**GAIN:** 5 dBd (7.2 dBi)  
**VSWR:** ≤ 1.1:1 (-26.4 dB)  
**POLARIZATION:** vertical (or horizontal)  
**IMPEDANCE:** 50 Ohm unbalanced  
**HALF POWER BEAMWIDTH:**  
 E-Plane - 70°  
 H-Plane - 131°

**LIGHTNING PROTECTION:** all metal parts DC grounded

### AVAILABLE VERSIONS AND CODE:

AST0202335 - N female connector - max 400W  
 AST0202336 - DIN 7/16 female connector - max 1200W  
 AST0202337 - EIA 7/8" flange - max 1800W



E-Plane

H-Plane

## MECHANICAL FEATURES

**MATERIALS:** antenna in st. steel, bracket and bolts in hot dip galvanized steel, components in aluminium, teflon isolators, silicon O-Rings

**MOUNTING:** directly on supporting structure

**MOUNTING BRACKETS:** included for Ø 60÷114mm. pipe

**ICING PROTECTION:**

optional ABS radome on semi-dipole (code XRAST25)

**TREATMENTS:** hot-dip galvanized bracket,

aluminium components military grade MIL-C-5541

**ANTENNA DIMENSIONS:** 1600x1000x60 mm (@ 98.0 MHz)

**WEIGHT:** 4 Kg

**WIND SURFACE:** 0.04 m<sup>2</sup> front - 0.11 m<sup>2</sup> side

**WIND LOAD (at 160Km/h and 30° C air temperature):**

3.55 Kg front - 8.76 Kg side

**SURVIVAL WIND:** 160Km/h

**PACKING DIMENSIONS:**

box 1700x200x150 mm - 6 Kg gross — antenna @ 98.0 MHz

## ARRAY DATA

BAY	PANEL PER BAY	SYSTEM GAIN (dBd) <sup>1</sup>	GAIN TIMES	WEIGHT (Kg) <sup>2</sup>	SYSTEM HEIGHT (m)	WIND LOAD (Kg) <sup>3</sup>
2	1	7.33	5.41	27	4.1	17.5
4	1	10.36	10.86	47	9.5	35.0
6	1	12.12	16.29	70	14.4	52.6
8	1	13.56	22.70	88	19.6	70.1
12	1	15.11	32.43	132	30.0	105.1

1 - gain referred at mid band -1<sup>st</sup> 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

AST 02 02 33x

VHF  
Band FM  
Radio Broadcasting

Antenna yagi sintonizzata a 2 elementi in acciaio inox.  
 Irradiazione semi-direttiva.  
 Adatta per sistemi collineari FM.  
 Smontabile.

*Yagi 2 elements tuned stainless steel antenna.  
 Semi-directional radiation pattern.  
 Suitable for FM stacked-array antenna system.  
 Demountable.*

