

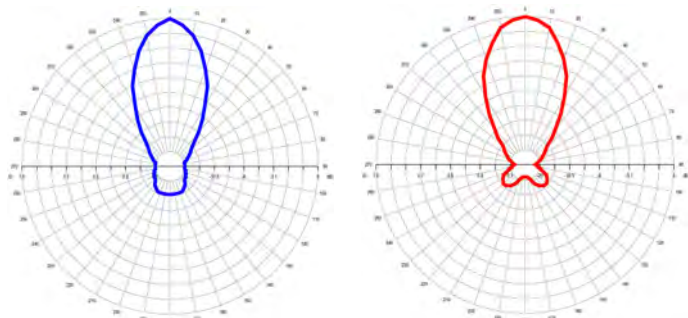
**ELECTRICAL FEATURES**

**WORKING BAND:** 87.5÷108 MHz  
**BANDWIDTH:** 0.2 MHz  
**GAIN:** 9.5 dBd (11.7 dBi)  
**VSWR:** ≤ 1.1:1 (-26.4 dB)  
**POLARIZATION:** vertical (or horizontal)  
**IMPEDANCE:** 50 Ohm unbalanced  
**HALF POWER BEAMWIDTH:**  
 E-Plane - 39°  
 H-Plane - 45°

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

**AVAILABLE VERSIONS AND CODE:**

AST0502335 - N female connector - max 400W  
 AST0502336 - DIN 7/16 female connector - max 1200W  
 AST0502337 - 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, safety rope in parafil® and st. steel tumbuckle

**MOUNTING:** directly on supporting structure

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

**ICING PROTECTION:**

optional ABS radome on semi-dipole (code XRAST35)

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

aluminium components military grade MIL-C-5541

**ANTENNA DIMENSIONS:** 2800x1600x110 mm (@ 98.0 MHz)

**WEIGHT:** 18 Kg

**WIND SURFACE:** 0.04 m² front - 0.27 m² side

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

3.15 Kg front - 22.18 Kg side

**SURVIVAL WIND:** 160Km/h

**PACKING DIMENSIONS:**

box 2900x250x250 mm - 25 Kg gross - antenna @ 98.0MHz

**ARRAY DATA**

BAY	PANEL PER BAY	SYSTEM GAIN (dBd) <sup>1</sup>	GAIN TIMES <sup>1</sup>	WEIGHT (Kg) <sup>2</sup>	SYSTEM HEIGHT (m) <sup>3</sup>	WIND LOAD (Kg) <sup>3</sup>
2	1	12.62	18.28	52	4.3	44.4
4	1	15.24	33.42	97	9.7	88.7
6	1	16.86	48.53	145	14.6	133.1
8	1	18.03	63.53	188	19.8	177.4
12	1	19.71	93.54	282	30.2	266.2

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 yagi sintonizzata a 5 elementi in acciaio inox.  
 Irradiazione direttiva.  
 Adatta per sistemi collineari FM.  
 Smontabile.

*Yagi 5 elements tuned stainless steel antenna.  
 Directional radiation pattern.  
 Suitable for FM stacked-array antenna system.  
 Demountable.*

