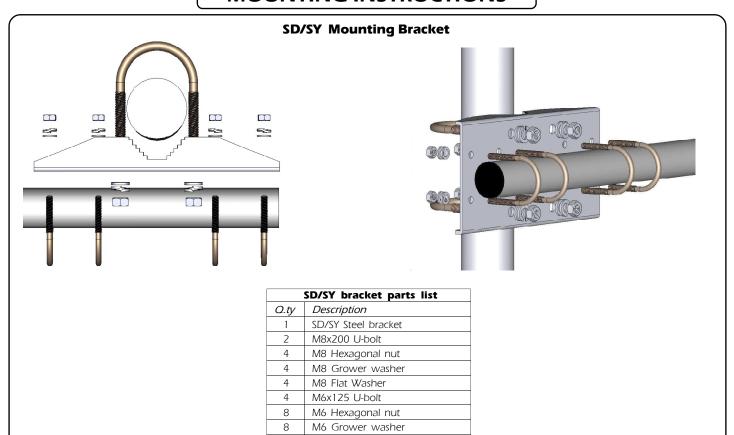
MOUNTING INSTRUCTIONS



M6 Flat washer

Zinc Plated Steel

Re-order code: SA088

Materials

Array distance Vertical polarization L= 2.9 m L L



HI-QUALITY ANTENNAS MADE IN ITALY

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SY78-2

VHF 78-88 MHz Base Station 2 Element Yagi Antenna

DESCRIPTION

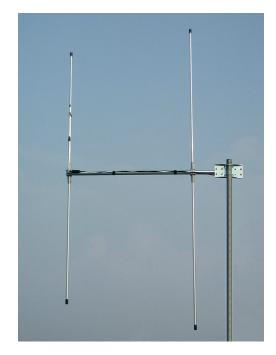
Directional 2 elements Yagi antenna for VHF 78-88 MHz with gamma match feed system.

Elements and boom of generous section are completely made of anticorodal aluminum, and the steel bracket is placed in the rear position for the best performance in vertical and horizontal polarization. The elements are fixed to the boom by a strong die-cast metal support to get the maximum strength.

All connections are waterproof and it is supplied whit UHF female connector.

All metal parts and hardware are weather resistant.

To improve the antenna gain please install it in stacked or bayed array.



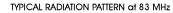
TECHNICAL DATA

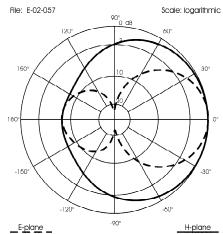
Electrical Data

2 elements Yagi
78 - 88 MHz
50 Ω Unbalanced
Linear Vertical or Horizontal
beamwidth @ -3 dB= 180° @83 MHz
beamwidth @ -3 dB= 75° @ 83 MHz
5 dBi
≥ 8 dB
≤ 1.5
350 Watts (CW) @ 30°C
Gamma Match
UHF-female with rubber protection cap

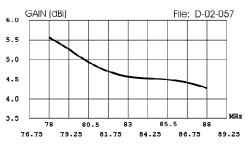
Mechanical Data

Materials	Aluminum, EPDM rubber, Zamak, Zinc plated
	Steel, Chromed Brass
Wind load / resistance	148 N at 150 Km/h / 140Km/h
Wind surface	0.118 m ²
Boom/elements diameter	33mm/16mm
Dimensions (approx.)	1250 x 1895 mm
Weigth (approx.)	2610 gr
Turning radius	1490 mm
Operating temperature	-40° C to +80° C
Mounting Mast	Ø 35-52 mm

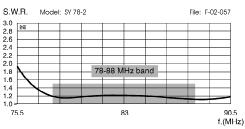




TYPICAL GAIN DIAGRAM vs FREQUENCY



TYPICAL S.W.R. RESPONSE





Antenne HI-QUALITY ANTENNAS MADE IN ITALY

MOUNTING INSTRUCTIONS

Correct mounting for horizontal polarization

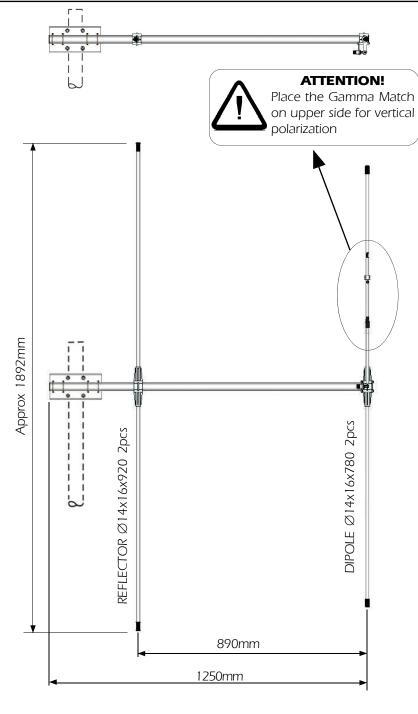
Pic.1

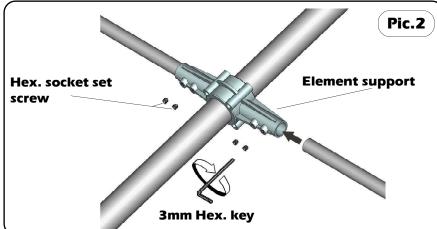
Correct mounting for vertical polarization

Elements Mounting

Measure the length of the aluminum elements by means of a meter and install them in the element support of the boom according to **Pic.1**. Finally fix the elements with supplied screws and key (see **Pic.2**). Be careful to check that all parts are well locked.

Fixing elements hardware parts list		
Q.ty	Description	
8	M6x6 Hexagon socket set screws	
1	3mm Hexagonal key	
4	Ø 16mm PVC caps	
	Re-order code: SA208	

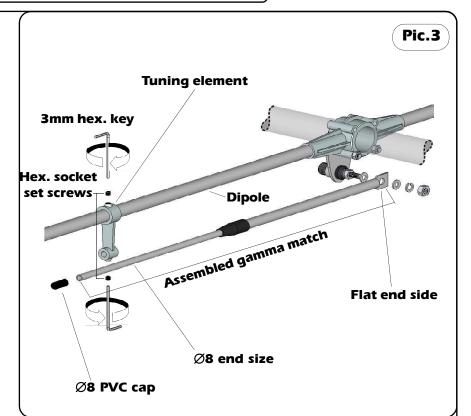


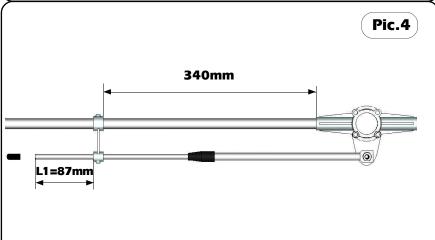


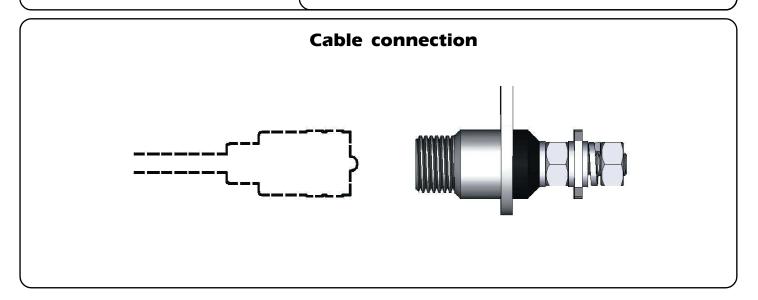
Gamma-match Mounting

- 1) Fix without locking the flat end of the gamma-match by using the supplied nut and washer according to **pic. 3**
- 2) Insert the tuning element on the dipole tube and move it toward the boom. Insert the opposite side (Ø8) of gamma match in the tuning element and fix it at 340mm by means of the enclosed hardware (see pic. 4). Mount the PVC caps Ø16mm on the elements.
- **3**) Check that the last part of your gamma match (∅8mm) is correctly positioned at 87mm according to **L1** (**pic. 4**) and fix it with hardware.
- **4**) Lock the nut on the flat end of the gamma match and mount the PVC cap (see **pic. 4**)

	Gamma Match parts list
Q.ty	Description
1	Assembled Gamma Match
2	M6x6 Hexagon socket set screws
1	3mm Hexagonal key
1	Ø8 PVC cap
2	M6 Flat washer
1	M6 Grower washer
1	M6 Hexagonal nut
1	Tuning element
	Re-order code: SA209











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