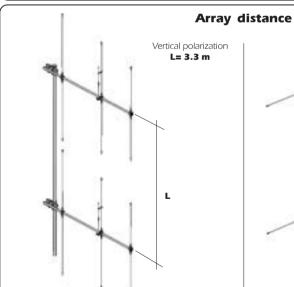
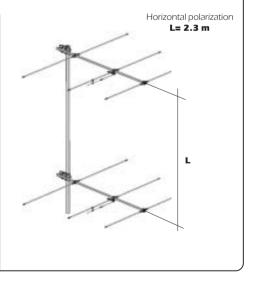
MOUNTING INSTRUCTIONS









HI-QUALITY ANTENNAS MADE IN ITALY

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SY68-3

VHF 68-78 MHz Base Station 3 Element Yagi Antenna

DESCRIPTION

Directional 3 elements Yagi antenna for VHF 68-78 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 with 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

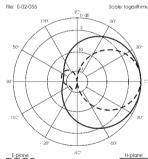
Electrical Data

Туре	3 elements Yagi
Frequency range	68 - 78 MHz
Impedance	50 Ω Unbalanced
Polarization	Linear Vertical or Horizontal
Radiation (H-plane)	beamwidth @ -3 dB= 130° @ 73 MHz
Radiation (E-plane)	beamwidth @ -3 dB= 70° @ 73 MHz
Max Gain	7 dBi
Front to Back ratio	≥ 15 dB
SWR in bandwidth	≤ 1.5
Max Power	350 Watts (CW) @ 30°C
Feed system	Gamma Match
Connector	UHF-female with rubber protection cap

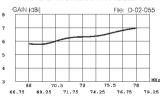
Mechanical Data

Materials	Aluminum, EPDM rubber, Zamak, Zinc plated
	Steel, Chromed Brass
Wind load / resistance	203 N at 150 Km/h / 120Km/h
Wind surface	0.166 m ²
Boom/elements diameter	33mm/16mm
Dimensions (approx.)	1600 x 2235 mm
Weigth (approx.)	3360 gr
Turning radius	1875 mm
Operating temperature	-40° C to +80° C
Mounting Mast	Ø 35-52 mm

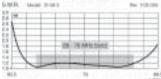




TYPICAL GAIN DIAGRAM VS FREQUENCY



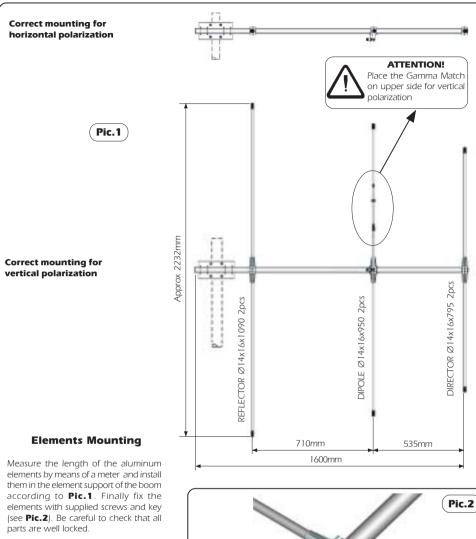
MICHTRY BROWS



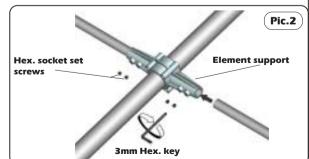


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MOUNTING INSTRUCTIONS





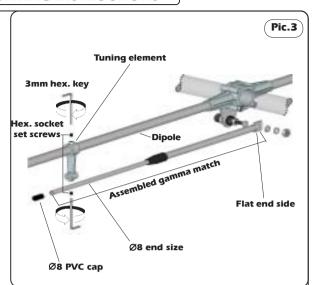


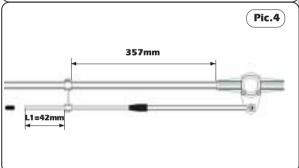
MOUNTING INSTRUCTIONS

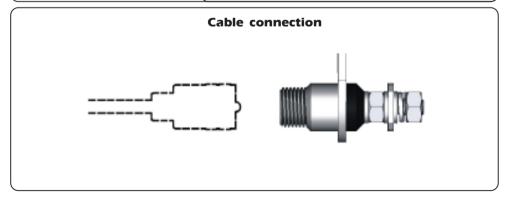
Gamma-match Mounting

- 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 357mm 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 (Ø8mm) is correctly positioned at 42mm 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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