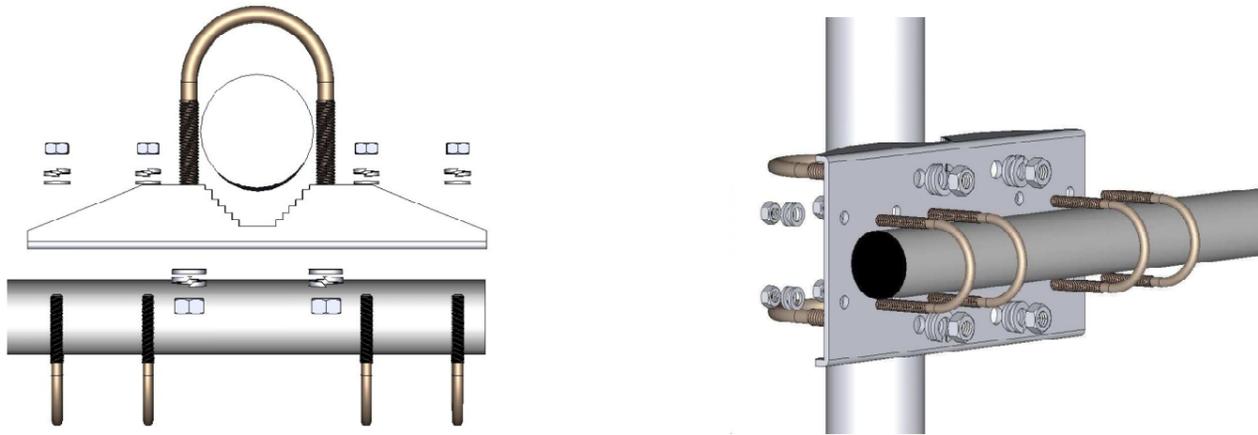


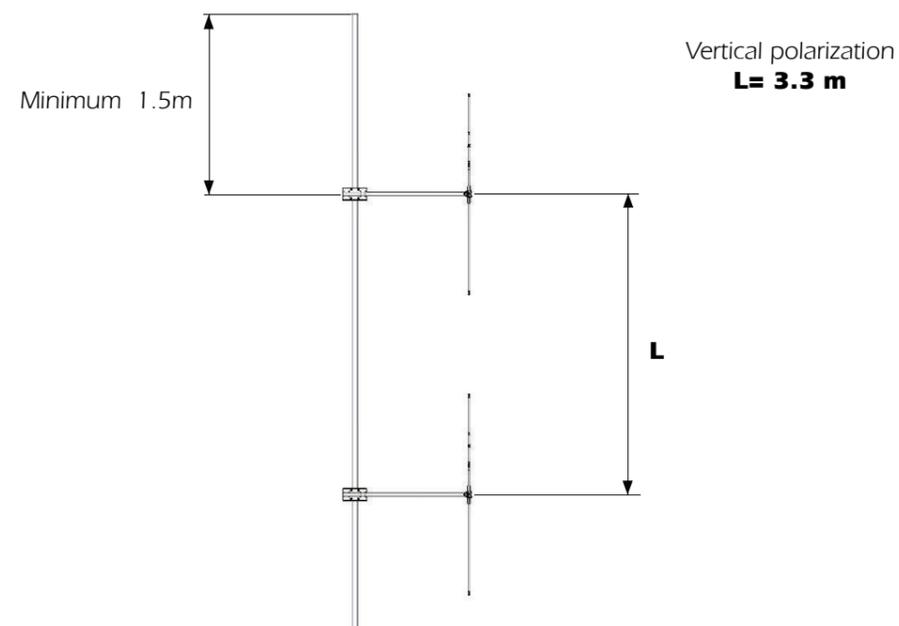
## MOUNTING INSTRUCTIONS

### SD/SY Mounting Bracket



SD/SY bracket parts list	
Q. ty	Description
1	SD/SY Steel bracket
2	M8x200 U-bolt
4	M8 Hexagonal nut
4	M8 Grower washer
4	M8 Flat Washer
4	M6x125 U-bolt
8	M6 Hexagonal nut
8	M6 Grower washer
8	M6 Flat washer
Materials	Zinc Plated Steel
Weight	865g
Re-order code: SA088	

### Array distance



## SD68

### VHF 68-78 MHz Base Station Dipole Antenna

### DESCRIPTION

Dipole 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 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

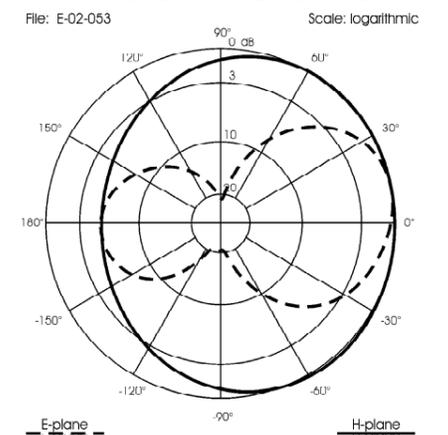
Type	Dipole
Frequency range	68 - 78 MHz
Impedance	50 $\Omega$ Unbalanced
Polarization	Linear Vertical or Horizontal
Radiation (H-plane)	beamwidth @ -3 dB= 240° @ 73 MHz *
Radiation (E-plane)	beamwidth @ -3 dB= 80° @ 73 MHz *
Max Gain	4* dBi
Front to Back ratio	$\geq 4^*$ dB
SWR in bandwidth	$\leq 1.5$
Max Power	350 Watts (CW) @ 30°C
Feed system	Gamma Match
Connector	UHF-female with rubber protection cap

\*Valid data only for vertical polarization.

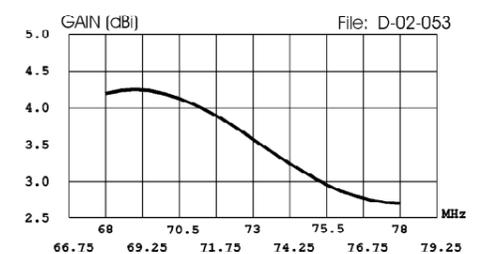
#### Mechanical Data

Materials	Aluminum, EPDM rubber, Zamak, Zinc plated Steel, Chromed Brass
Wind load / resistance	113 N at 150 Km/h / 160Km/h
Wind surface	0.087 m <sup>2</sup>
Boom/elements diameter	33mm/16mm
Dimensions (approx.)	1065 x 1915 mm
Weight (approx.)	2020 gr
Turning radius	1065* mm
Operating temperature	-40° C to +80° C
Mounting Mast	$\varnothing$ 35-52 mm

#### TYPICAL RADIATION PATTERN at 73 MHz



#### TYPICAL GAIN DIAGRAM vs FREQUENCY



#### TYPICAL S.W.R. RESPONSE

