WY380-3N

380-440 MHz Base Station 3 Element Yagi Antenna

DESCRIPTION

Base station antenna conceived by using an innovative feed system studied and applied to have highly symmetrical radiation pattern in both planes (E and H). It's completely computer designed to get high performances of gain and front-to-back in the working band. All aluminium parts are protected by anodized treatment, hardware are of Stainless steel or zinc plated steel, mounting bracket is of extruded aluminium for the best strength and the connector is placed in rear position for an easily access. To increase the antenna gain please install it in stacked or bayed array. **Patent pending applied**.



TECHNICAL DATA

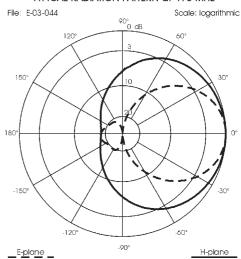
Electrical Data

Туре	3 element Yagi
Frequency range	380 - 440 MHz
Impedance	50 Ω Unbalanced
Polarization	Linear Vertical or Horizontal
Radiation (H-plane)	beamwidth at -3 dB= 125° at 410 MHz
Radiation (E-plane)	beamwidth at -3 dB= 65° at 410 MHz
Max Gain	7 dBi
Front to Back ratio	≥ 17 dB
S.W.R. in bandwidth	≤ 1.5:1
Max Power	150 Watts (CW) at 30°C
Feed system / Position	RG303 PTFE coax with balun / inside boom
Lightning protection	DC-ground
Connector	N-female with rubber protection cap

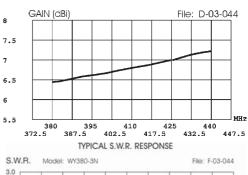
Mechanical Data

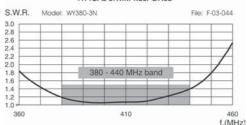
Materials	Anodized 6063-T5 Aluminium,
	Thermoplastic UV stabilized, Chromed Brass
Wind load / resistance	65 N at 150 Km/h / 180 Km/h
Wind surface	0.048 m ²
Dimensions (approx.)	565 x 400 mm
Weigth (approx.)	1130 gr
Turning radius	460 mm
Operating temperature	-40° C to +60° C
Mounting Mast	Ø 35-52 mm
-	

TYPICAL RADIATION PATTERN at 410 MHz



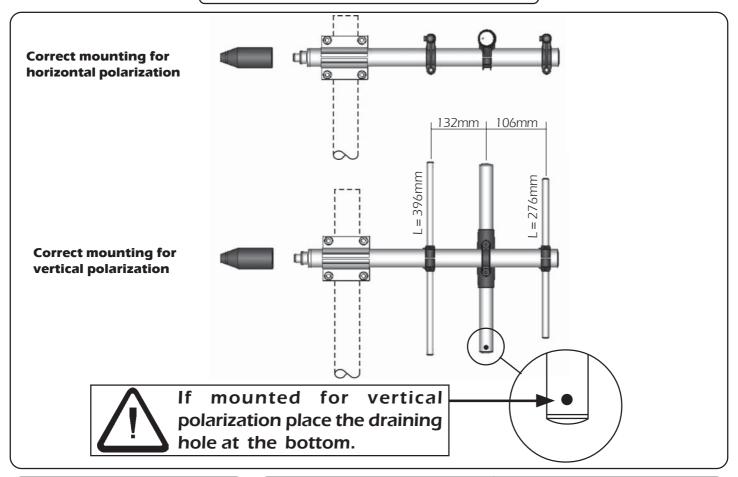
TYPICAL GAIN DIAGRAM vs FREQUENCY







MOUNTING INSTRUCTIONS



Standard Mounting Bracket

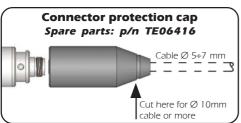


Spare parts: p/n SA197

Materials: extruded aluminum Hardware: stainless & zinc plated steel Dimensions: 80 x 76 x 65 mm

Weight: 460 gr

weight. 100 gr		
Part List		
Q.ty	Description	
1	Extruded aluminium bracket	
2	Steel bracket	
2	M8x200 U-bolt	
4	M8 Grower washer	
4	M8 Hexagonal nut	
2	M6x20 Hexagonal head screw	
2	M6 Grower washer	
2	M6 Hexagonal nut	



Tilting Bracket*



Order p/n: 2519803.00

Materials & Hardware: zinc plated steel Dimensions: 110 x 150 x 6 mm. Weight: 800 gr

Weight. 000 gi		
Part List		
C	Ω.ty	Description
	1	110x150x6 Tilting bracket
	4	M8x25 Spheric head screw
	4	M8 Grower washer
	4	M8 Hexagonal nut

Right side for upper tilt from 0° to 20° 20° 20° Left side for down tilt from 0° to -20° * Optional (not included).

