WY400-3N

400-470 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**.



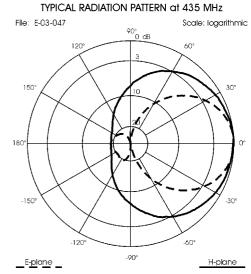
TECHNICAL DATA

Electrical Data

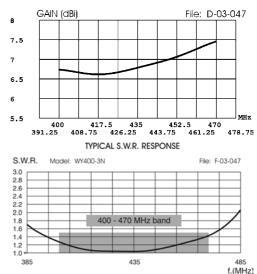
Туре	3 element Yagi
Frequency range	400 - 470 MHz
Impedance	50 Ω Unbalanced
Polarization	Linear Vertical or Horizontal
Radiation (H-plane)	beamwidth at -3 dB= 125° at 435 MHz
Radiation (E-plane)	beamwidth at -3 dB= 65° at 435 MHz
Max Gain	7 dBi
Front to Back ratio	≥ 17 dB
S.W.R. in bandwidth	≤ 1.5:1
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

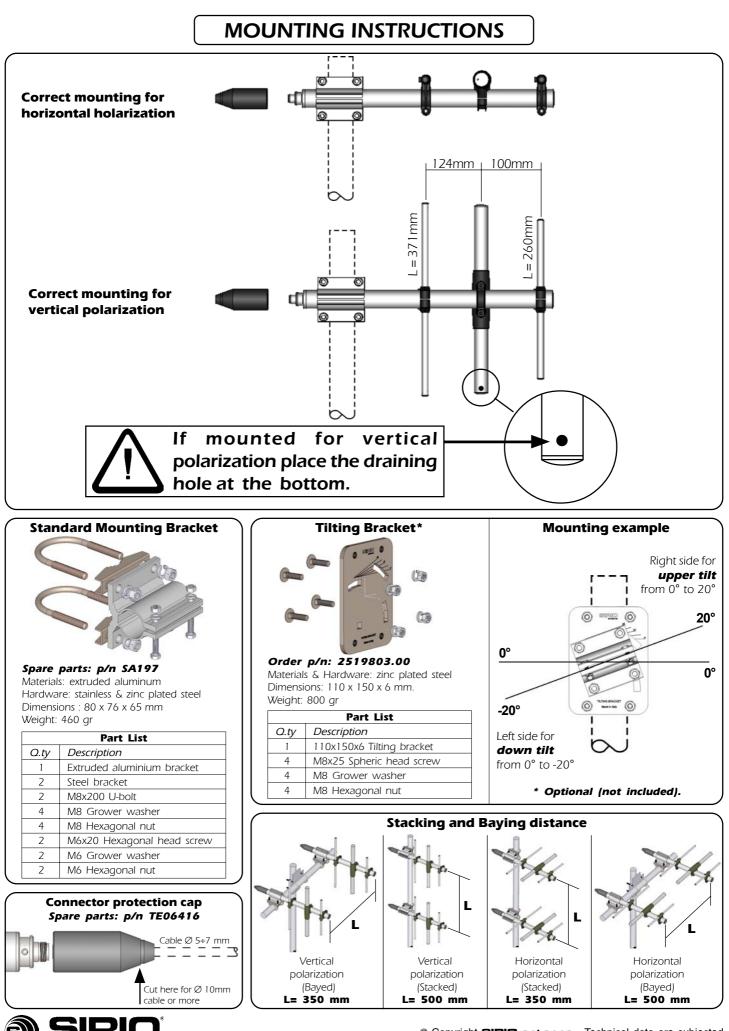
Materials	Anodized 6063-T5 Aluminium,
	Thermoplastic UV stabilized, Chromed Brass
Wind load / resistance	65 N at 150 Km/h / 180 Km/h
Wind surface	0.048 m ²
Dimensions (approx.)	525 x 375 mm
Weigth (approx.)	1100 gr
Turning radius	420 mm
Operating temperature	-40° C to +60° C
Mounting Mast	Ø 35-52



TYPICAL GAIN DIAGRAM vs FREQUENCY







antenne HI-QUALITY ANTENNAS MADE IN ITALY

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