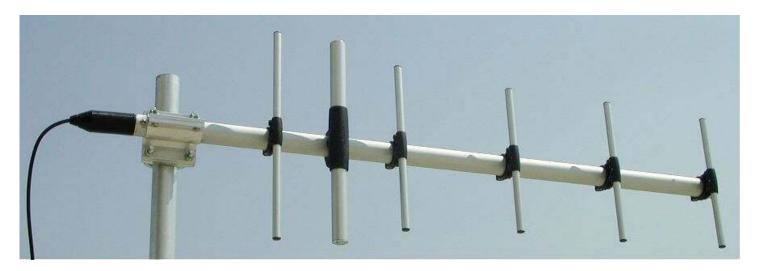
## WY 457-6N

### VHF Base Station 6 elements Yagi Antennas 457 - 468 MHz

**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 vertical stacked array.

#### These product is Patented.

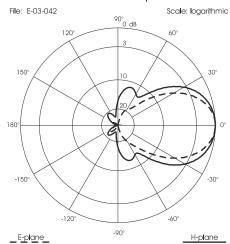


Electrical Data	WY 457-6N
Туре	6 elements Yagi
Frequency Range @ SWR ≤ 1.5	457.3 - 467.5 MHz
Impedance	50 Ω
Radiation (H-plane) beamwidth @ -3 dB	58° @ 462.4 MHz
Radiation (E-plane) beamwidth @ -3 dB	46° @ 462.4 MHz
Front to back ratio	≥ 20 dB
Polarization	Linear Vertical or Horizontal
Gain	9.35 dBd - 11.5 dBi
Max Power (CW) @ 30°C	50 Watts (CW)
Grounding Protection	All metal parts are DC-grounded, the inner conductor shows a DC
	short
Connector	N-female with rubber protection cap

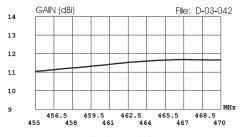
#### Mechanical Data

Materials	Anodized 6063-T5 Aluminium, thermoplastic UV stabilized,
	Chromed Brass
Wind Load @ 150 km/h	76 N
Wind Resistance	150 Km/h; 93 mi/h
Wind Surface	0.06 m², 0,61 ft²
Dimensions W x H (approx.)	1030 x 340 x 80 mm; 40.5 x 13.4 x 3.1 ft
Turning radius (approx.)	950 mm, 37.5 ft
Weight (approx.)	1450 gr; 3.2 lb
Operating temperature	-40 °C to +60 °C
Mounting Mast	Ø 35 - 52 mm; 1.4 - 2.0 in
Boom / Dipole / Element Diameter	Ø 32 mm; 1.3 in / Ø 24 mm; 0.95 in / Ø 12 mm; 0.5 in

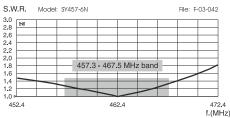
#### TYPICAL RADIATION PATTERN in E-plane at 462.4 MHz



#### TYPICAL GAIN DIAGRAM vs FREQUENCY

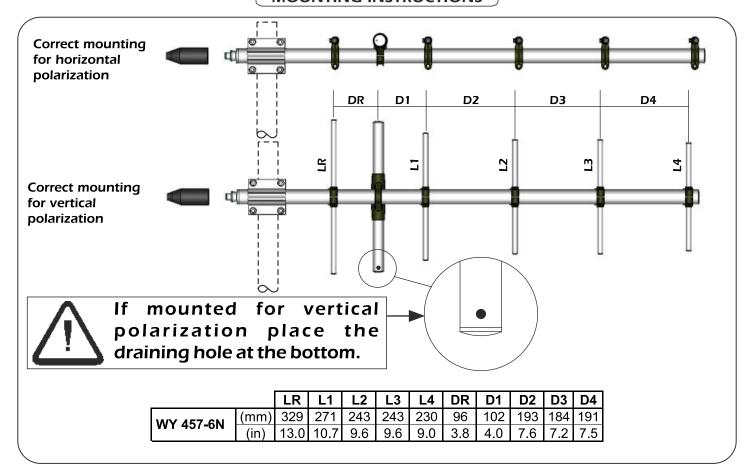


TYPICAL S.W.R. RESPONSE

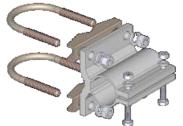




#### **MOUNTING INSTRUCTIONS**



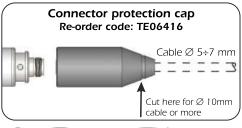
#### **Standard Mounting Bracket**



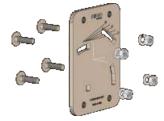
#### Spare parts: p/n SA197

Materials: extruded aluminum Hardware: stainless & zinc plated steel Dimensions: 80 x 76 x 65 mm Weight: 460 gr

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\*

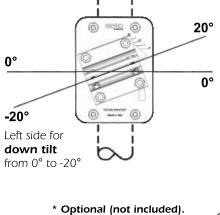


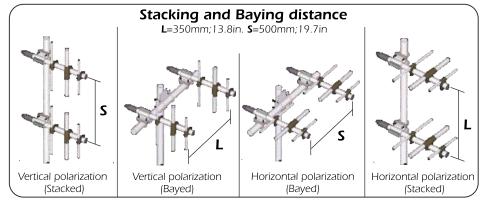
#### Order p/n: 2519803.00

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

Part list		
O.ty	Description	
1	10x150x6 Tilting bracket	
4	M8x25 Spheric head screw	
4	M8 Grower washer	
4	M8 Hexagonal nut	

# Mounting example Right side for upper tilt from 0° to 20°







HI-QUALITY ANTENNAS MADE IN ITALY