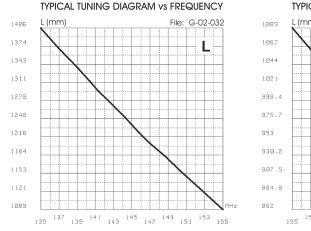
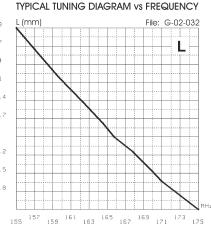
TYPICAL TUNING DIAGRAMS

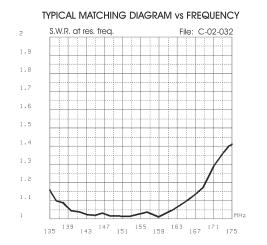




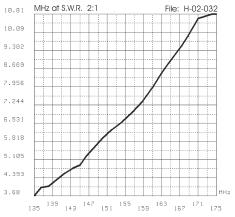
NOTE:

• Use the curves just as a guide. For fine-tuning please use an SWR-Meter.

MATCHING & BANDWIDTH DIAGRAMS









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GPF 22 N

VHF Base Station Antenna 135...175 MHz



DESCRIPTION

 $2x5/8 \lambda$ Ground Plane base station colinear antenna for land and marine service. It works on 135...175 MHz by using the cutting diagram enclosed. The matching coil is DC feeded for a perfect protection from the static discharges. GPF 22-N is made of fiberglass, non-corrosive aluminium, stainless steel and its die-cast strong base assures the maximum robustness and the best performance. Tuning is easy by following the attached directions

SPECIFICATIONS

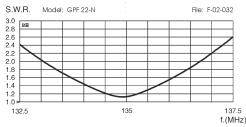
Electrical Data

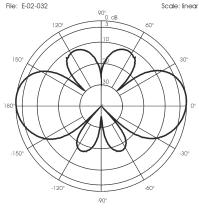
Туре	: 2 x 5/8 λ Ground Plane Colinear
Frequency Range	: 135175 MHz tunable by cutting
Impedance	: 50 Ω
Radiation (H-Plane)	: 360° Omnidirectional
Radiation (E-Plane)	: Beamwidth at -3 dB = 35°
Radiation Angle deg.	: 0°
Polarization	: Linear Vertical
Gain	: 3.8 dBd, 5.95 dBi
Bandwidth @ SWR ≤ 2	: see diagram
SWR @ res. freq.	: see diagram
Max Power	: 200 Watts
Grounding Protection	: All metal parts are DC-grounded, the inner conductor is coupled capacitively
Connector	: N-female, Gold Plated central pin

Mechanical Data Materials Wind Load / Resistance Wind Surface Height (approx.) Weight (approx.) Radial Length (approx.) Mounting Mast

: Fiberglass, Aluminium, Brass, Stainless steel : 95 N at 150 Km/h / 150 Km/h $: 0.08 \text{ m}^2$: 3230 mm : 1630 gr TYPICAL RADIATION PATTERN in E-plane at 145 MHz : 495 mm File: E-02-032 : Ø 35-54 mm

TYPICAL S.W.R. RESPONSE

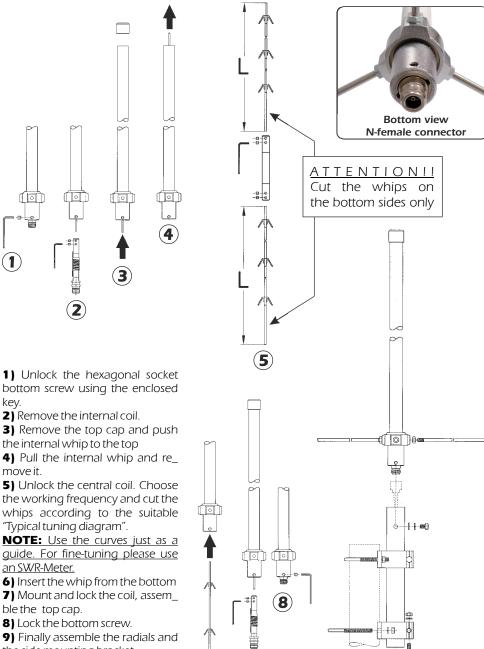






ID271

HI-QUALITY ANTENNAS MADE IN ITALY



(7)

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MOUNTING AND TUNING INSTRUCTIONS

8) Lock the bottom screw.

9) Finally assemble the radials and the side mounting bracket.