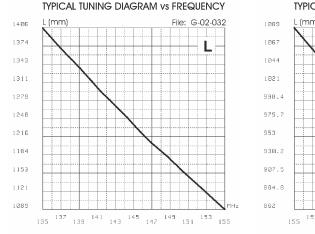
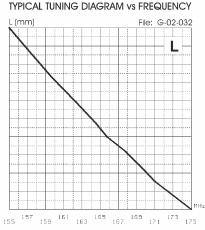
### TYPICAL TUNING DIAGRAMS

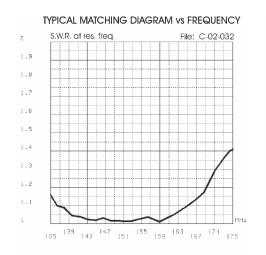


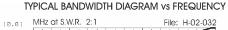


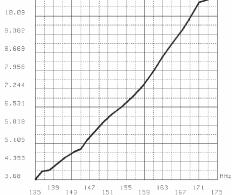
#### NOTE:

• 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**

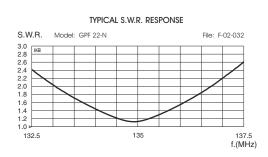
Type Frequency Range Impedance Radiation (H-Plane) Radiation (E-Plane) Radiation Angle deg. Polarization Gain Bandwidth @ SWR  $\leq 2$ SWR @ res. freq. Max Power Grounding Protection Connector

: 2 x 5/8  $\lambda$  Ground Plane Colinear : 135...175 MHz tunable by cutting :50 Ω : 360° Omnidirectional - HCM code = 000ND00 : Beamwidth @  $-3 dB = 35^{\circ} - HCM code = 018ND30$ : 0° : Linear Vertical : 3.85 dBd, 6 dBi : see diagram : see diagram : 200 Watts : All metal parts are DC-grounded, the inner conductor is coupled capacitively : N-female, Gold Plated central pin

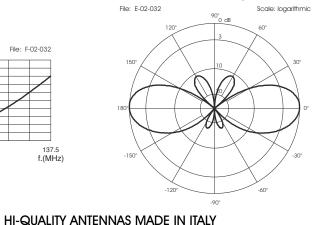
#### **Mechanical Data**

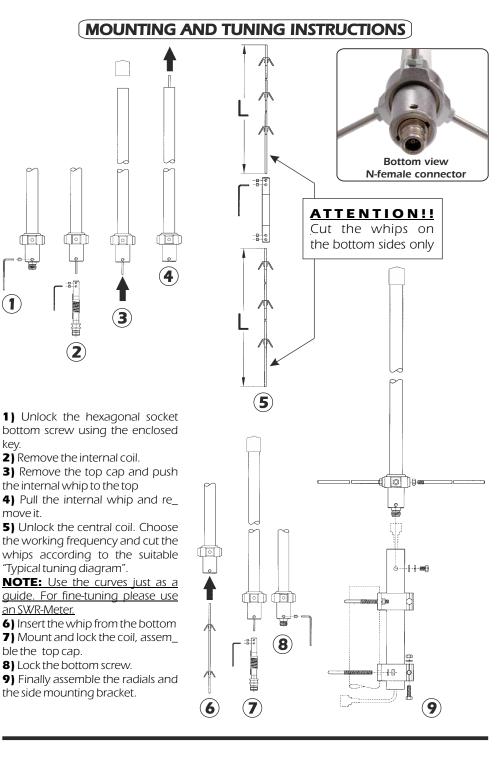
: Fiberglass, Aluminium, Brass, Stainless steel Materials Wind Load / Resistance : 95 N @ 150 Km/h / 150 Km/h, 93 mi/h Wind Surface : 0.08 m<sup>2</sup>, 0.85 ft<sup>2</sup> Height (approx.) : 3230 mm, 10.6 ft Weight (approx.) : 1630 gr, 3.6 lb Radial Length (approx.) : 495 mm, 1.6 ft Mounting Mast : Ø 35-60 mm. Ø 1.4-2.4 in

#### TYPICAL RADIATION PATTERN in E-plane at 145 MHz









ID271