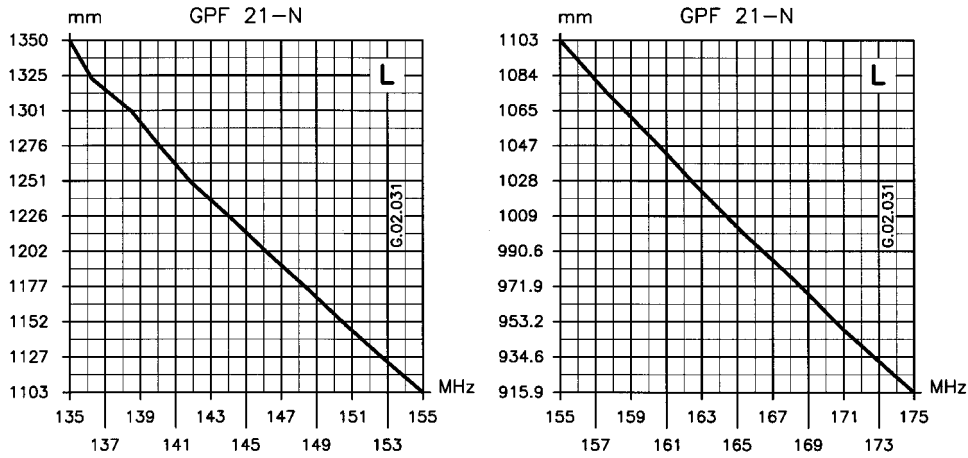


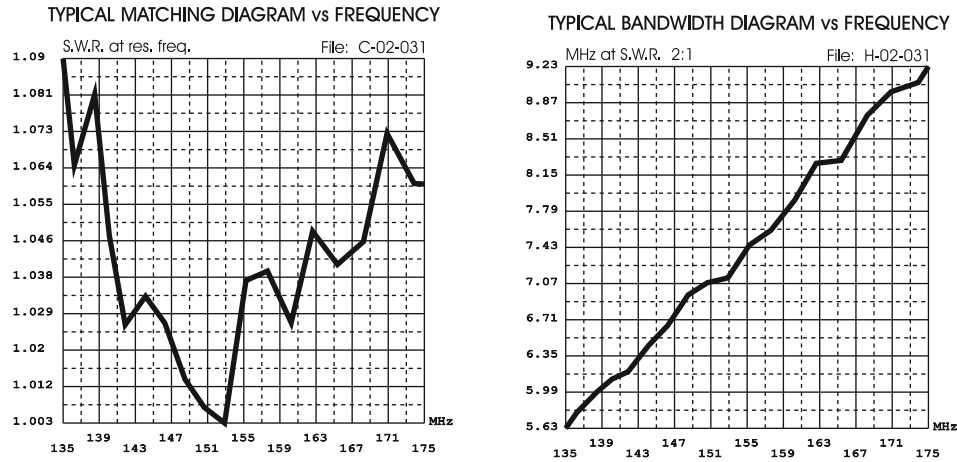
TYPICAL TUNING DIAGRAMS



NOTE:

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

MATCHING & BANDWIDTH DIAGRAMS



GPF 21 N

VHF Base Station Antenna 135...175 MHz



DESCRIPTION

5/8 λ 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 21-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

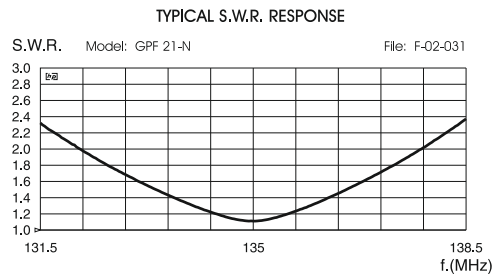
SPECIFICATIONS

Electrical Data

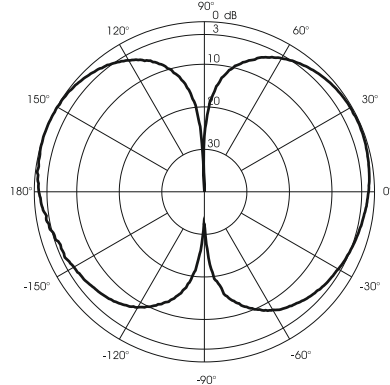
Type	: 5/8 λ Ground Plane
Frequency Range	: 135...175 MHz tunable by cutting
Impedance	: 50 Ω
Radiation (H-plane)	: 360° Omnidirectional
Radiation (E-plane)	: Beamwidth at -3 dB = 80°
Radiation angle deg.	: 28°
Polarization	: Linear Vertical
Gain	: 1.5 dBd - 3.65 dBi
Bandwidth @ SWR \leq 2	: see diagram
SWR @ res. freq.	: see diagram
Max Power	: 200 Watts
Grounding Protection	: All metal parts are DC-grounded, inner conductor shows a DC short
Connector	: "N"-Female, Gold Plated central pin

Mechanical Data

Materials	: Fiberglass, Aluminium, Brass
Wind Load / Resistance	: 55 N at 150 Km/h / 200 Km/h
Wind Surface	: 0.05 m ²
Height (approx.)	: 1730 mm
Weight (approx.)	: 1200 gr
Radial Length (approx)	: 495 mm
Mounting Mast	: \varnothing 35-54 mm

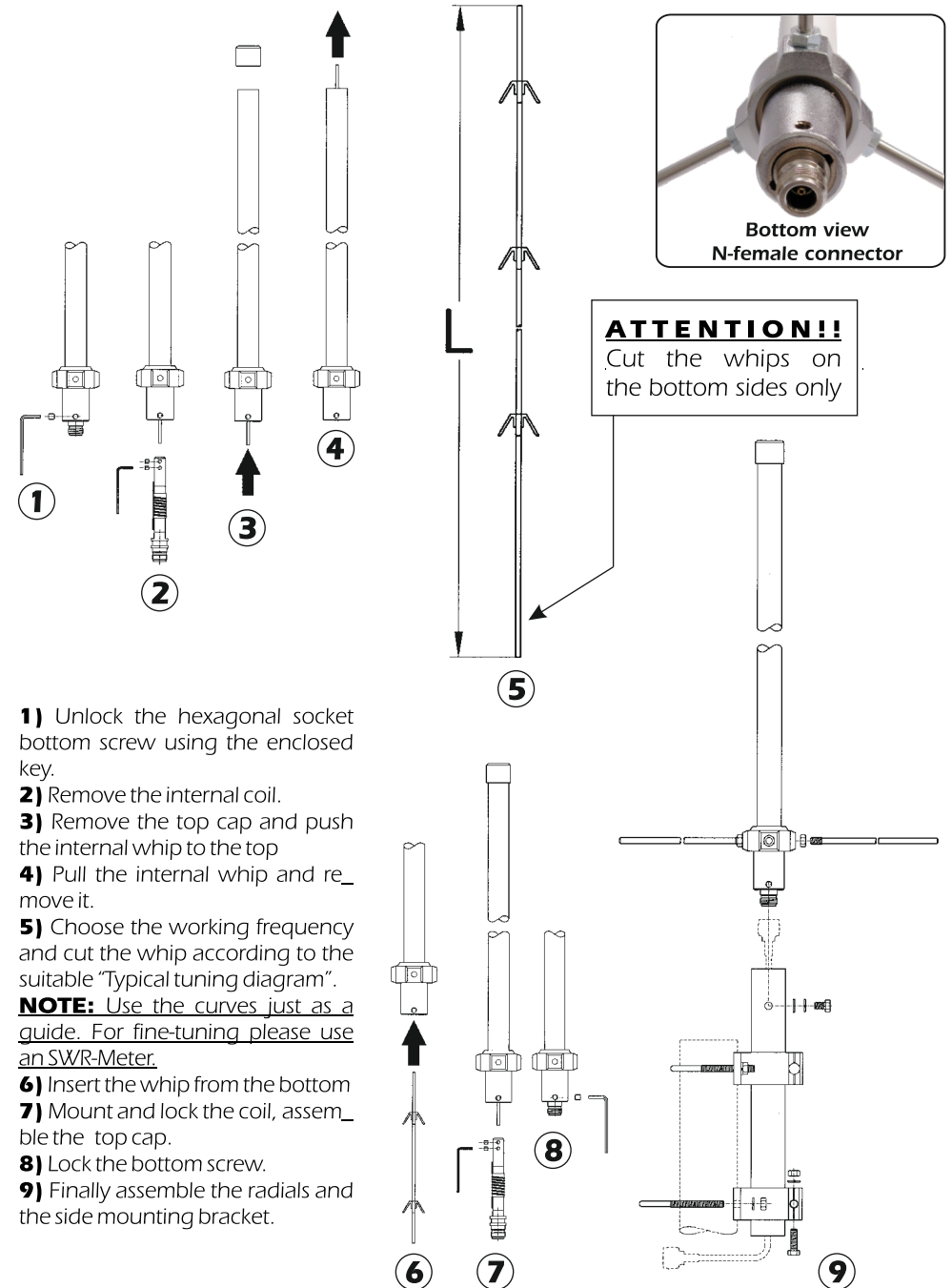


TYPICAL RADIATION PATTERN in E-plane at 145 MHz
File: E-02-031 Scale: linear



HI-QUALITY ANTENNAS MADE IN ITALY

MOUNTING AND TUNING INSTRUCTIONS



- 1) Unlock the hexagonal socket bottom screw using the enclosed key.
- 2) Remove the internal coil.
- 3) Remove the top cap and push the internal whip to the top
- 4) Pull the internal whip and re-secure it.
- 5) Choose the working frequency and cut the whip according to the suitable "Typical tuning diagram".
NOTE: Use the curves just as a guide. For fine-tuning please use an SWR-Meter.
- 6) Insert the whip from the bottom
- 7) Mount and lock the coil, assemble the top cap.
- 8) Lock the bottom screw.
- 9) Finally assemble the radials and the side mounting bracket.