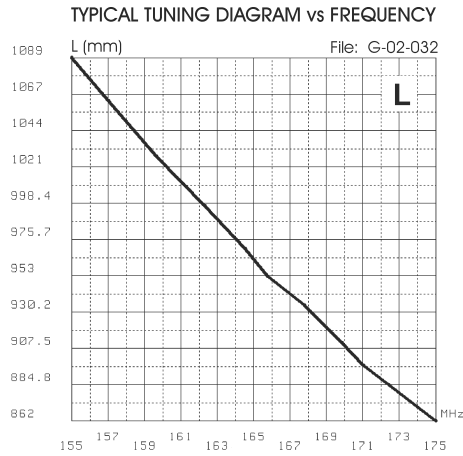
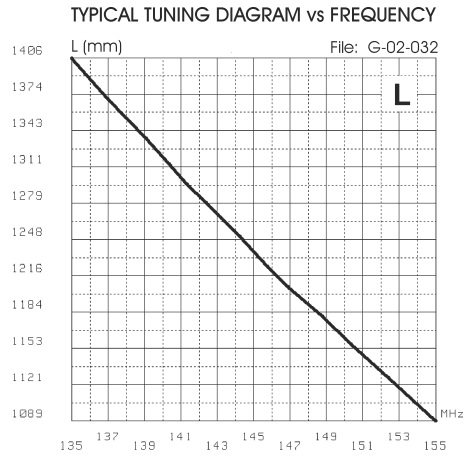


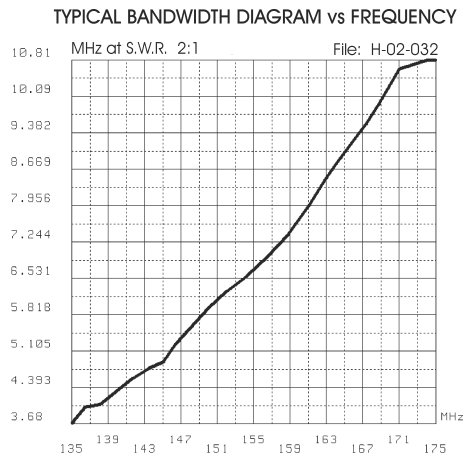
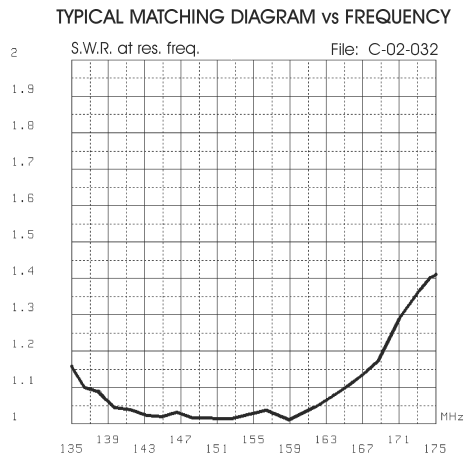
TYPICAL TUNING DIAGRAMS



NOTE:

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

MATCHING & BANDWIDTH DIAGRAMS



GPF 22 N

VHF Base Station Antenna 135...175 MHz



Installation Manual

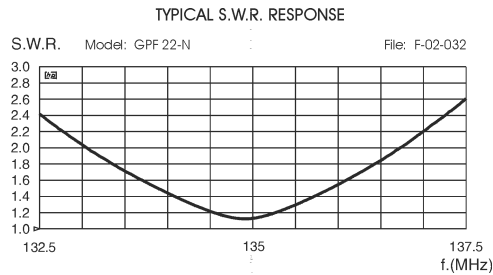
DESCRIPTION

2x5/8 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 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

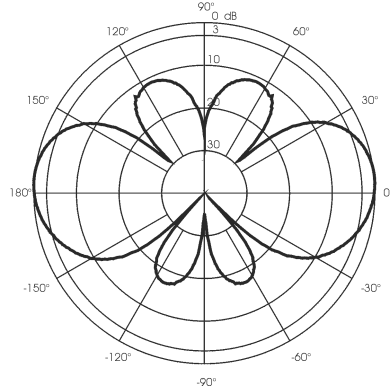
SPECIFICATIONS

Electrical Data	
Type	: 2 x 5/8 λ Ground Plane Colinear
Frequency Range	: 135...175 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

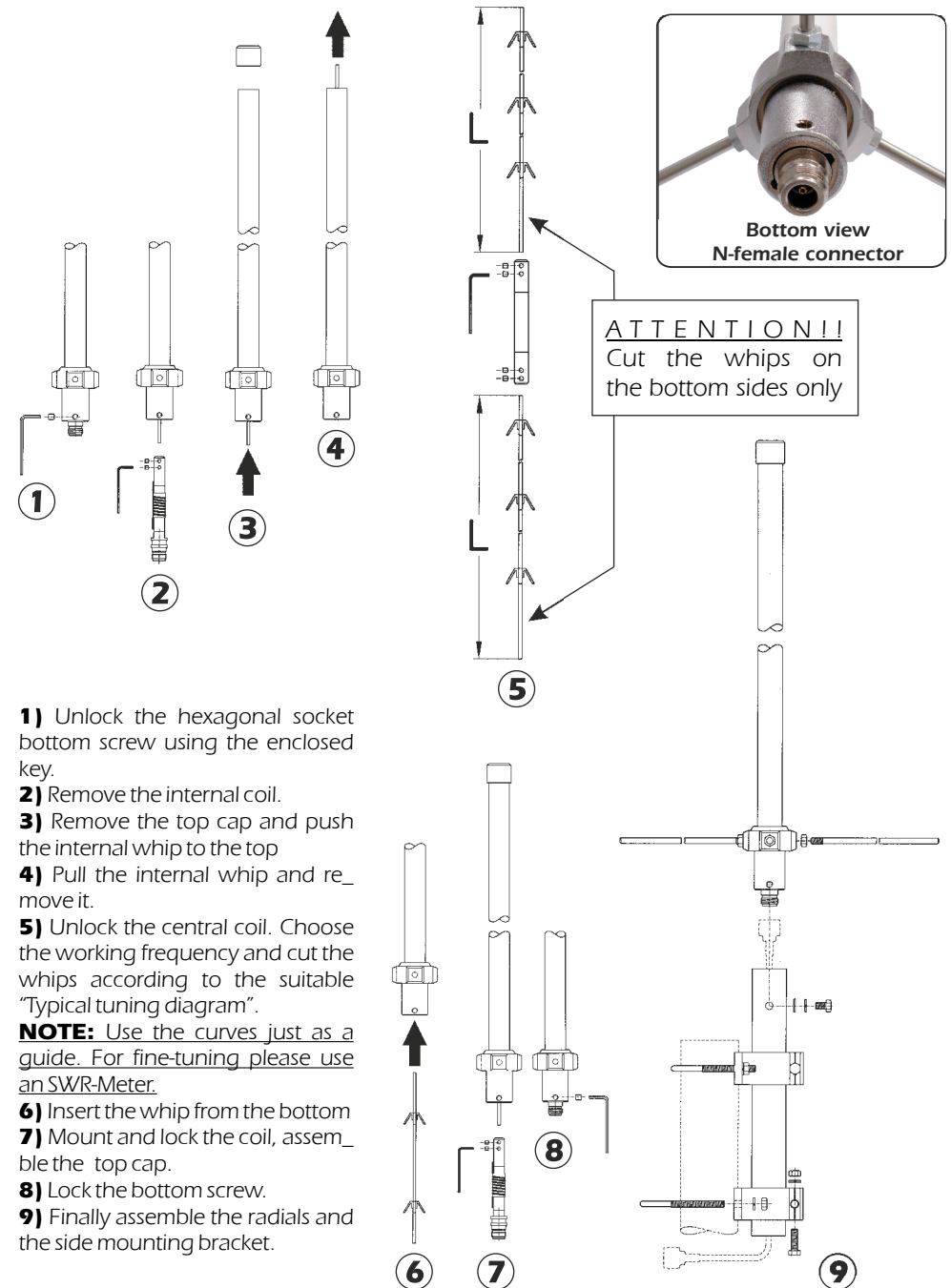
Mechanical Data	
Materials	: Fiberglass, Aluminium, Brass, Stainless steel
Wind Load / Resistance	: 95 N at 150 Km/h / 150 Km/h
Wind Surface	: 0.08 m ²
Height (approx.)	: 3230 mm
Weight (approx.)	: 1630 gr
Radial Length (approx.)	: 495 mm
Mounting Mast	: Ø 35-54 mm



TYPICAL RADIATION PATTERN in E-plane at 145 MHz
File: E-02-032 Scale: linear



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-move it.
- 5)** Unlock the central coil. Choose the working frequency and cut the whips 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.