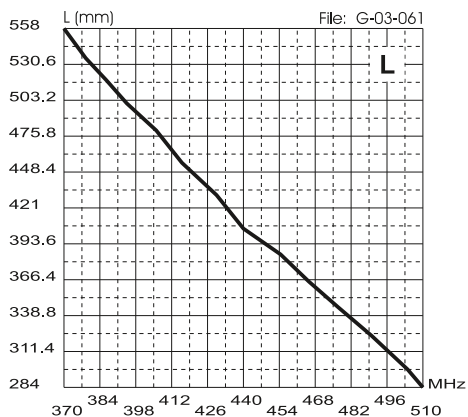
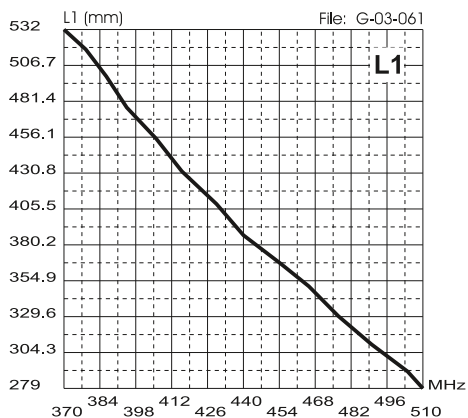
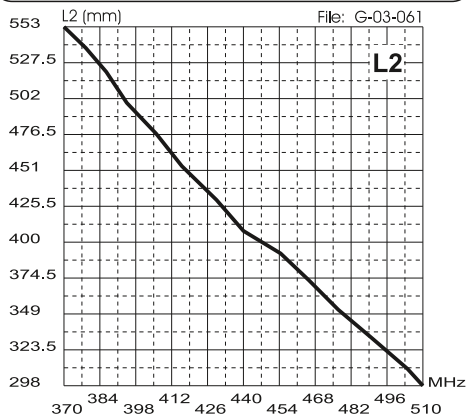
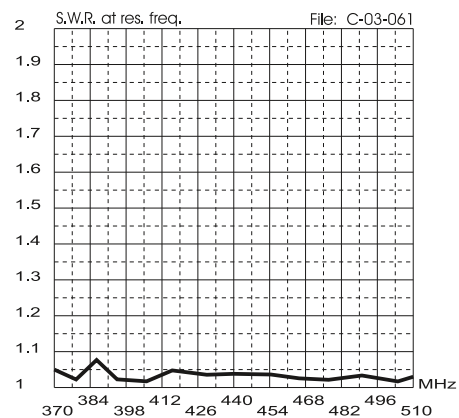


TYPICAL TUNING DIAGRAMS



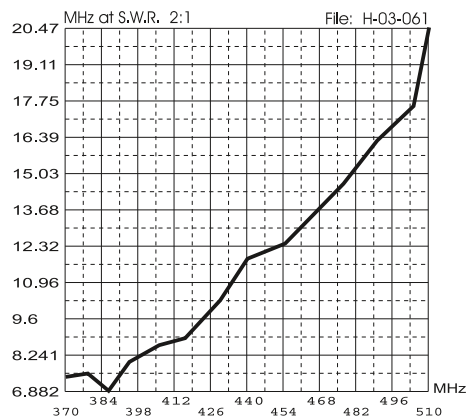
MATCHING DIAGRAM

TYPICAL MATCHING DIAGRAM vs FREQUENCY



BANDWIDTH DIAGRAM

TYPICAL BANDWIDTH DIAGRAM vs FREQUENCY



HI-QUALITY ANTENNAS MADE IN ITALY

GPF 703 N

UHF Base Station Antenna 370...510 MHz



Installation Manual

NOTE:

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

DESCRIPTION

3x5/8 λ Ground Plane base station colinear antenna for UHF service. It work on 370...510 MHz by using the cutting diagram enclosed. The matching coil is DC feeded for a perfect protection from the static discharges. GPF 703-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

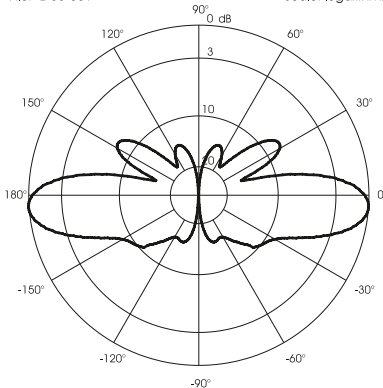
Electrical Data

Type	: 3 x 5/8 λ Ground Plane Colinear
Frequency Range	: 370...510 MHz tunable by cutting
Impedance	: 50 Ω
Radiation (H-Plane)	: 360° Omnidirectional
Polarization	: Linear Vertical
Gain	: 4.6 dBd, 6.75 dBi
Bandwidth @ SWR ≤ 2	: see diagram
SWR @ res. freq.	: see diagram
Max Power	: 200 Watts CW @ 20°C
Grounding Protection	: All metal parts are DC-grounded, the inner conductor show a DC-short
Connector	: N-female, Gold Plated central pin

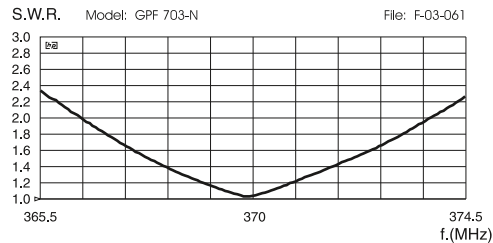
Mechanical Data

Materials	: Fiberglass, Aluminium, Brass, Stainless steel
Wind Load / Resistance	: 64 N at 150 Km/h / 160 Km/h
Wind Surface	: 0.055 m ²
Height (approx.)	: 2230 mm
Weight (approx.)	: 1160 gr
Radial Length (approx.)	: 170 mm
Mounting Mast	: Ø 35-54 mm

TYPICAL RADIATION PATTERN in E-plane at 440 MHz
File: E-03-061 Scale: logarithmic

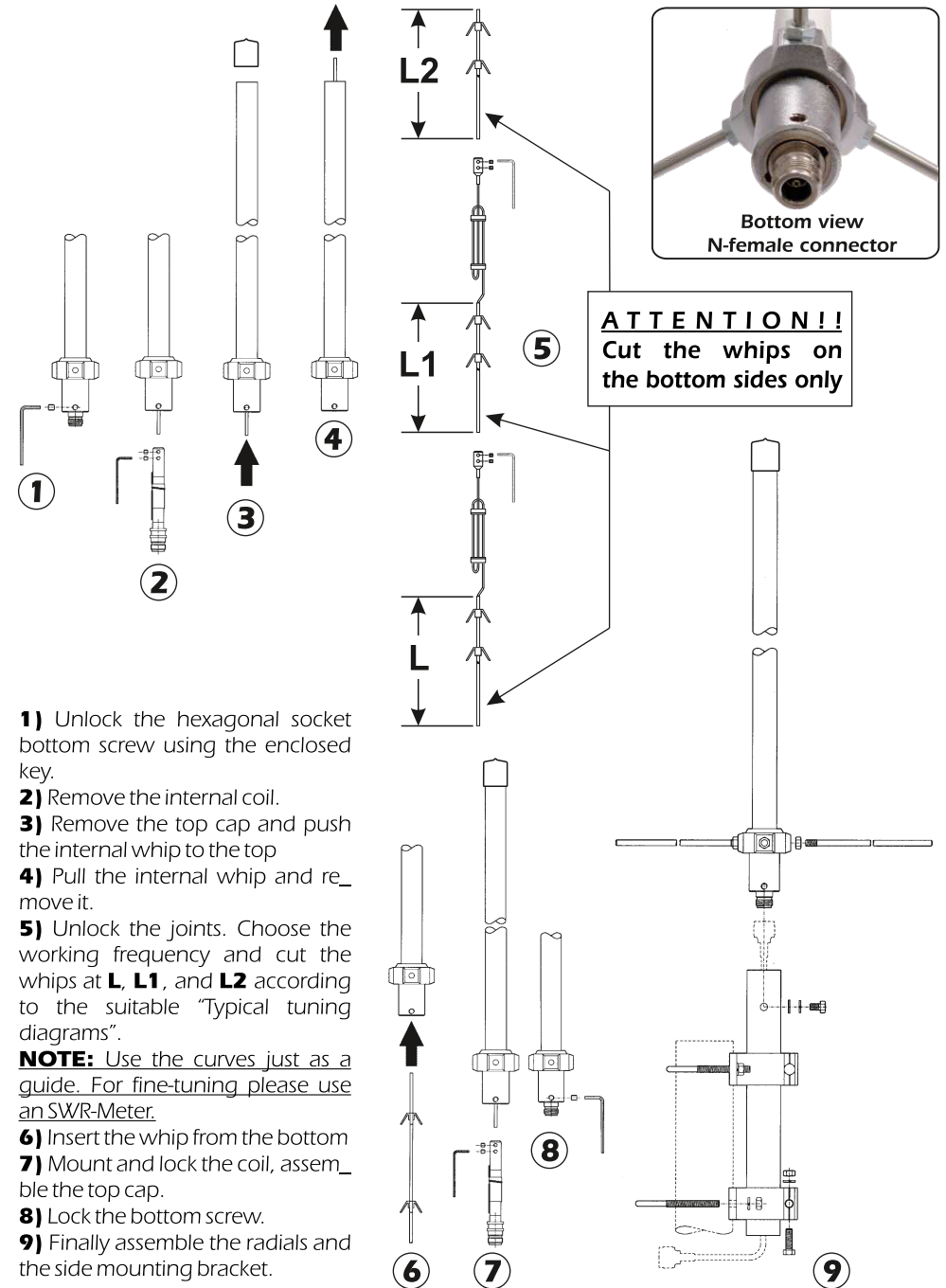


TYPICAL S.W.R. RESPONSE



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-move it.
- 5) Unlock the joints. Choose the working frequency and cut the whips at **L**, **L1**, and **L2** according to the suitable "Typical tuning diagrams".
- 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.