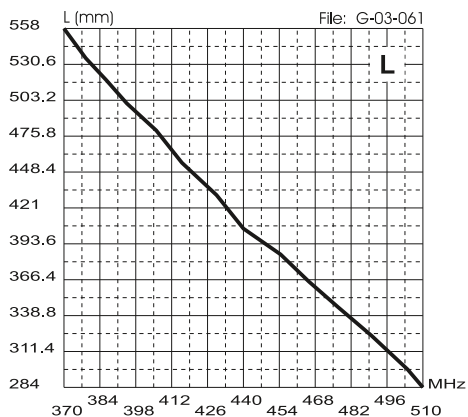
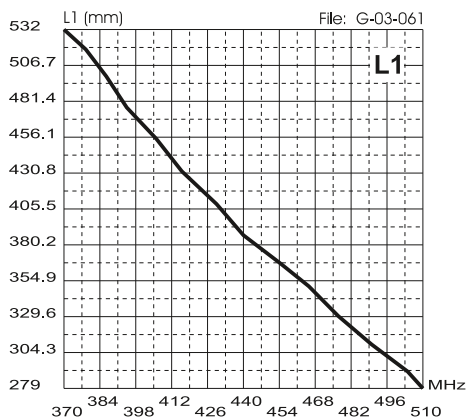
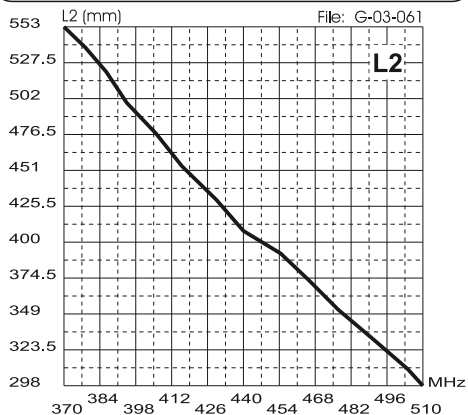
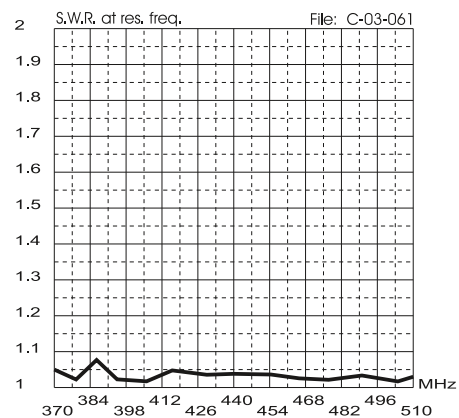


TYPICAL TUNING DIAGRAMS



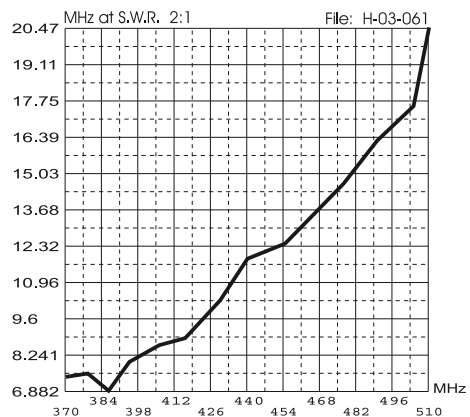
MATCHING DIAGRAM

TYPICAL MATCHING DIAGRAM vs FREQUENCY



BANDWIDTH DIAGRAM

TYPICAL BANDWIDTH DIAGRAM vs FREQUENCY



HI-QUALITY ANTENNAS MADE IN ITALY

GP7 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

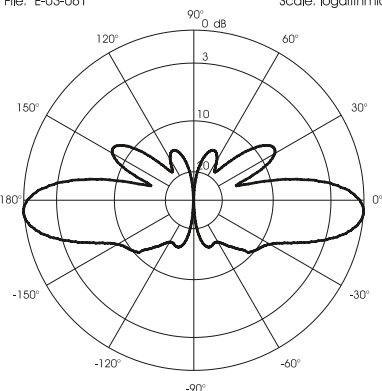
Electrical Data

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 $\leq$ 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

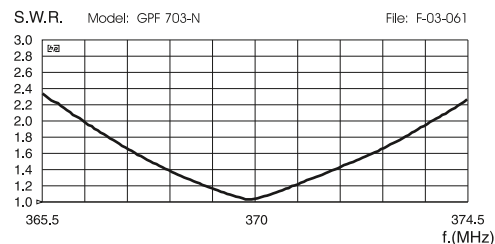
Mechanical Data

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	: $\varnothing$ 35-54 mm

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

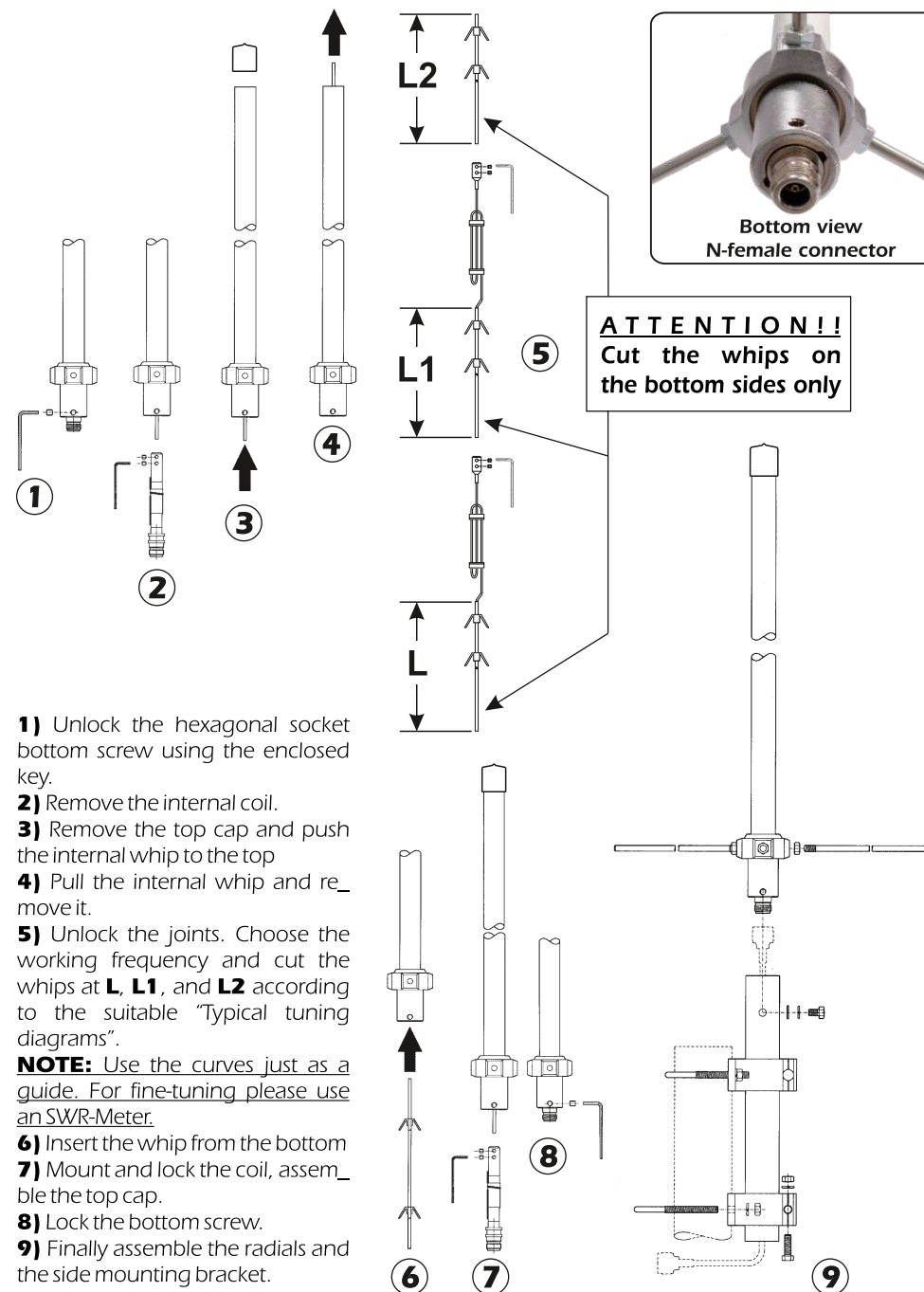


TYPICAL S.W.R. RESPONSE



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.