

GPF 703 N

UHF Base Station Antenna 370...510 MHz

DESCRIPTION

 $3x5/8 \lambda$ 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 Frequency Range Impedance Radiation (H-plane) Radiation (E-plane) Radiation angle deg. Polarization Gain Bandwidth @ SWR ≤ 2 SWR @ res. freq. Max Power Grounding Protection Connector

: 3 x 5/8 λ Ground Plane Colinear : 370...510 MHz tunable by cutting :50 Ω : 360° Omnidirectional - HCM code = 000ND00 : Beamwidth @ $-3 dB = 25^{\circ} - HCM code = 013ND39$ · -7° : Linear Vertical : 4.6 dBd - 6.75 dBi : see diaaram : see diagram : 200 Watts : All metal parts are DC-grounded, inner conductor shows a DC short : "N"-Female, Gold Plated central pin

Mechanical Data

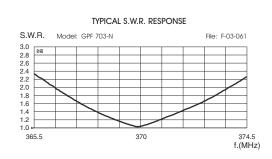
Materials Wind Load / Resistance Wind Surface : 0.055 m²: 0.58 ft² : 2230 mm, 7.32 ft Height (approx.) Weight (approx.) : 1160 gr, 2.56 lb Radial Length (approx) : 170 mm, 0.56 ft Mounting Mast

: Fiberglass, Aluminium, Brass : 64 N @ 150 Km/h / 160 Km/h: 99 mi/h : Ø 35-60 mm. Ø 1.4-2.4 in

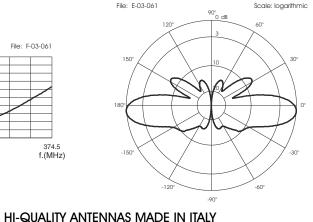
TYPICAL RADIATION PATTERN in E-plane at 440 MHz

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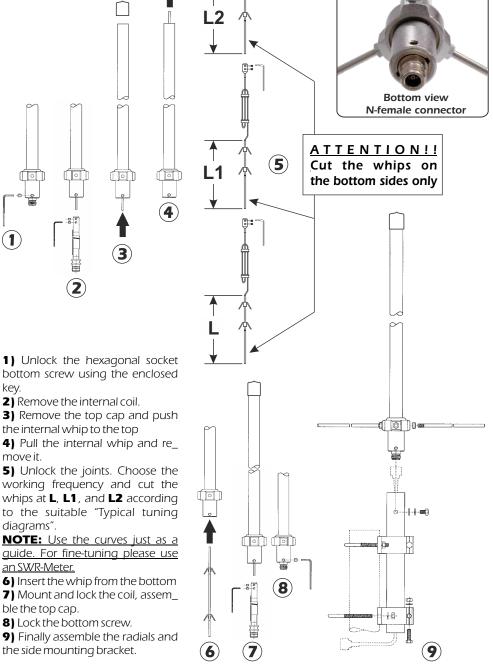
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