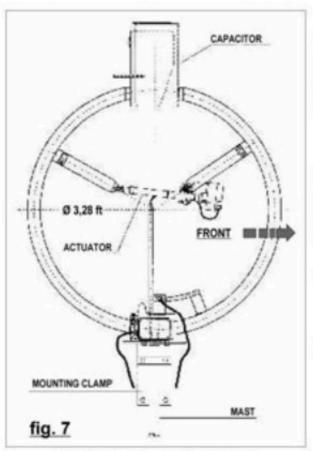
Electrical / mechanical specifications and sketch of Baby



Electrical specifications

➡ Continuous frequency Range: 6.600 – 29.800 MHz

S.W.R: 1.3:1 Typical

Front to Back Ratio: 6 dB

Front to Side Ratio: 25 dB

→ 50 Ohm input impedence with gamma match short circuited

(electrostatic discharge protection)

(electrostatic discharge protection)

Negligible noise and harmonics

■ L=3µH Q=1.100 at 7 MHz

→ C = 400 pF at 17 KV r.m.s.

→ Power Rating:450W up to 21.0 MHz** 1kW 22.0 ÷29.8 MHz**

■ Bandwidth: 4 KHz@ 7.0 MHz 6 KHz@14.0 MHz

12 KHz @ 21.0 MHz 20 KHz @ 28.0 MHz

Gain compared to λ ½ dipole (1 "S" point = 6 dB):

-4 dBd @ 7.0 MHz -0.3 dBd @ 28.0 MHz

Power is equal to the continuous power.

Mechanical specifications

Antenna Diameter: 1 m (39.8 in)

Aluminum alloy 60/60 welded with Tungsten and Injection of Gas

Tubular Element Ø 50 mm x 2 mm thickness (1.9 in x .08 in)

All stainless steel hardware and support pin

Galvanized Mounting clamp for a mast of Ø 60 mm Ø 76 mm (2.4 in −3.0 in)

Net/Gross Weight 16 Kg / 26 Kg (26.5 lbs − 57.3 lbs)

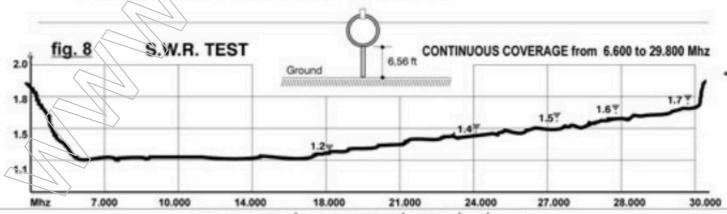
→ Windload 0.25 m² (2.7 ft²)

■ Maximum supported wind velocity 161 km/h (100 mph)

Force exerted on antenna by wind of 129 km/h (80.15 mph)= 480 N

■ Maximum flexibility moment on the antenna base anchoring point to a metal mast Ø 6 cm, height 3 m (Ø 2.36 in, height 9.84 ft) = 720 N/m

NOTE: C.E.I. regulations require the installation of a wind-guys for areas of high wind with possible ice formation. (in this case NON metallic guys)



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