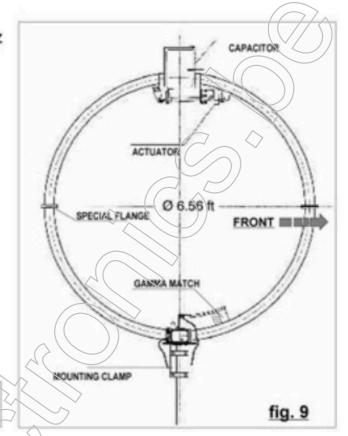
Electrical / mechanical specifications and sketch of Miai

- ➡ Electrical specifications
- Continous frequency Range: 3.500 14.500 MHz
- Front to Back Ratio: 6 dB
- Front to Side Ratio: 25 dB
- → 50 Ohm input impedence with gamma match short circuited (electrostatic discharge protection)
- Negligible noise and harmonics
- → L = 4.5 µH Q = 1.500 at 3.5 MHz
- → C = 560 pF at 14 KV r.m.s.
- → Power Rating: 300W 3.5 -7.0 MHz**
 - 800W 8.0-14.5 MHz**
- Bandwidth:
- 4 KHz@ 3.5 MHz
- 6 KHz @ 7.0 MHz
- 10 KHz @ 14.0 MHz
- Gain compared to ½λ dipole(1 "S" point = 6 dB):
 - -4 dBd @ 3.5 MHz
 - -0.3 dBd @ 14.0 MHz

**NOTE: With this LOOP ANTENNA the peak power is equal to the continuous power.



Mechanical specifications

- Antenna Diameter: 2 m (78.7 in.)
- Aluminum alloy 60/60 welded with Tungsten and Injection of Gas
- → Tubular Element Ø 75 mm x 2 mm thickness (Ø2/9 in x .08 in)
- All stainless steel hardware and support pin
- Galvanized Mounting clamp for a mast of Ø 60 mm 76 mm (2.4 in 3.0 in)
- → Net/Gross Weight 20 Kg/32 Kg (44 1/bs 70.5 lbs)
- Windload 0.5 m² (5.38 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 3.5m (Ø2.36in, height 11.48 ft) = 1.680 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).

