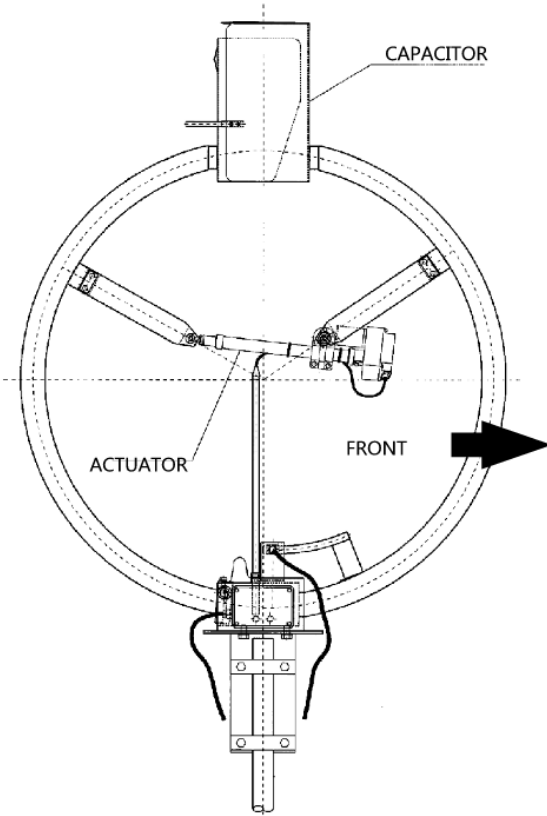


Electrical and mechanical specifications of LOOP BABY



Electrical specifications

Continuous frequency coverage 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 with gamma match short circuited (electrostatic discharge protection).
 Negligible noise and harmonics.
 $L = 3 \mu\text{H}$ $Q = 1.100$ a 7 MHz
 $C = 400 \text{ pF}$ a 17 KV r.m.s.
 Power rating: 450 W fino a 21 MHz **
 1 KW da 22 a 29.8 MHz**
 Bandwidth : 4 KHz @ 7 MHz
 6 KHz @ 14 MHz
 12KHz @ 21 MHz
 20KHz @ 28 MHz
 Gain compared to $\lambda/2$ dipole. (1 point "S" = 6 db) :
 - 4 db @ 7 MHz
 - 0.3 db @ 28 MHz

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

Mechanical specifications

Antenna diameter 1.0 mt (39.8in)
 Aluminum alloy 60/60 T.I.G. welded (*Tungsten Injected Gas*)
 Tubular elements $\varnothing 50 \times 2$ mm thickness (1.9in x 0.08in)
 All stainless steel hardware and support pin
 Stainless steel mounting clamp for a mast of $\varnothing 50 \div 60$ mm (2.0in – 2.3in)
 Net/gross weight Kg. 16/26 (26.5lbs/57.3lbs)
 Windload 0.25 mq (2.7ftq)
 Maximum swind velocity supported 161 km/h (100mph)
 Force exerted on antenna by wind of 129 km/h (80.15mph) = 240 N
 Maximum flexibility moment on the antenna base anchoring point to a metal mast $\varnothing 6$ cm (2.3in) height 3.0 m (9.84in) = 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)

