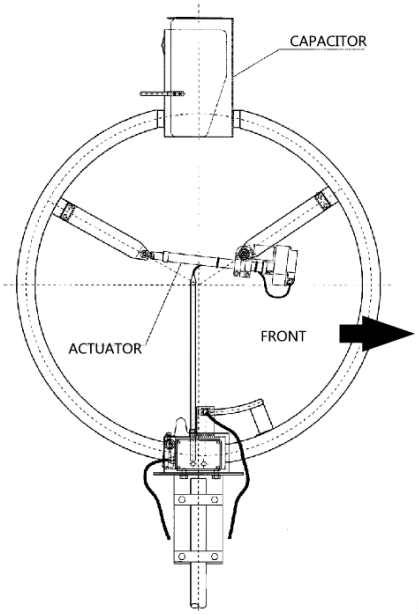
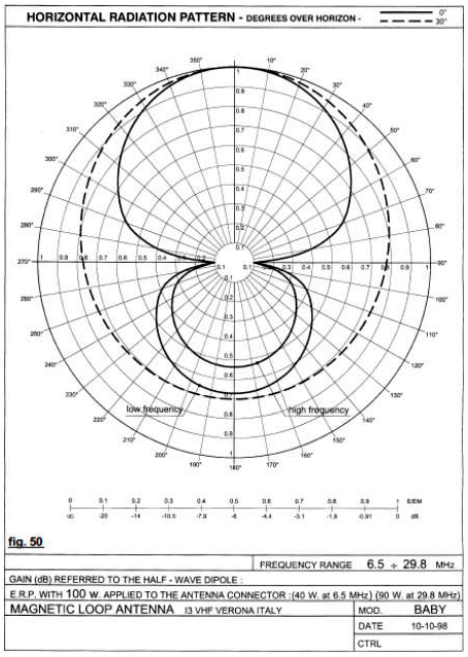
Electrical and mechanical specifications of ЗДЗУ LOOP

Electrical specifications



Continuous frequency coverage 6.6-29.8 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 µH Q = 1.100 a 7 MHz
C = 400 pF a 17 KV r.m.s.
Power rating: 450 W up to a 21 MHz **
1 KW from 22 to 29.8 MHz**
Bandwidth : 4 KHz @ 7 MHz
6 KHz @ 14 MHz
12KHz @ 21 MHz
20KHz @ 28 MHz
Gain compared to λ/2 dipole (1 point "S" = 6 dB)
- 4 dB @ 7 MHz
- 0.3 dB @ 28 MHz

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



Mechanical specifications

Antenna diameter 1.0m (39.8in)
Aluminum alloy 60/60 T.I.G. welded (*Tungsten Inert Gas*)
Tubular elements Ø 50 x 2mm thickness (1.9in x 0.08in)
All stainless steel hardware and support pin
Stainless steel mounting clamp for a mast of Ø 50÷ 60mm (2.0in – 2.3in)
Net/gross weight 16/26kg (26.5lbs/57.3lbs)
Windload 0.25m2 (2.7ft2)
Maximum wind velocity supported 161km/h (100mph)
Force exerted on antenna by wind of 129km/h (80.15mph) = 240 N
Maximum flexibility on the antenna base anchoring point to a metal mast Ø 6cm (2.36in) height 3.0m (9.84in) = 720 N/m
Note: *C.E.I. regulations require the installation of wind-guys for areas of high wind with possible ice formation (in this case **NON** metallic guys)*