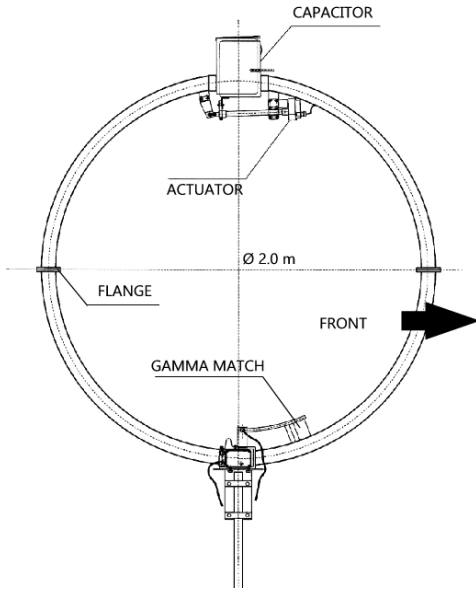


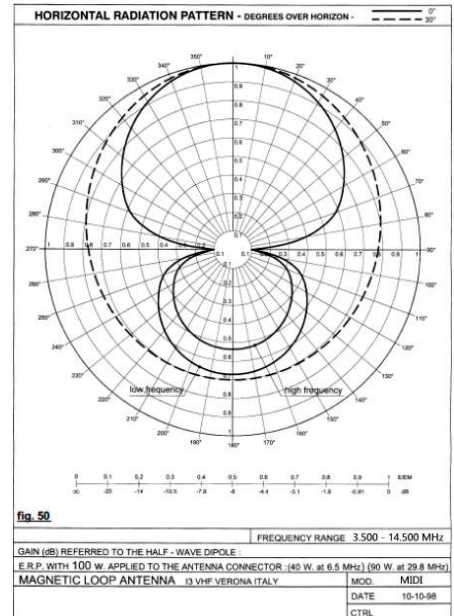
Electrical and mechanical specifications of **MiDi LOOP**

Electrical specifications

Continuous frequency coverage 3.5-14.5 MHz
 S.W.R. 1.2:1 (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
 $L = 4.5 \mu\text{H}$ $Q = 1.500$ a 3.5 MHz
 $C = 560 \text{ pF}$ a 14 KV r.m.s.
 Power rating: 300 W from 3.5 to 7 MHz **
 800 W from 8 to 14.5 MHz**
 Bandwidth: 4 KHz @ 3.5 MHz
 6 KHz @ 7.0 MHz
 10KHz @ 14.0 MHz
 Gain compared to $\lambda/2$ dipole (1 point "S" = 6 dB):
 - 4 dB @ 3.5 MHz
 - 0.3 dB @ 14.0 MHz



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



Mechanical specifications

Antenna diameter 2.0m (78.7in)
 Aluminium alloy 60/60 T.I.G. welded (*Tungsten Inert Gas*)
 Tubular elements $\varnothing 75 \times 2\text{mm}$ thickness (2.9in x 0.08in)
 All stainless steel hardware and support pin
 Stainless steel mounting clamp for a mast of $\varnothing 50 \div 60\text{mm}$ (2.0in – 2.3in)
 Net/gross weight 20/32kg (44.1lbs/70.5lbs)
 Windload 0.5m² (5.38ft²)
 Maximum wind velocity supported 161km/h (100mph)
 Force exerted on antenna by wind of 129km/h (80.15mph) = 480 N
 Maximum flexibility on the antenna base anchoring point to a metal mast $\varnothing 6\text{cm}$ (2.36in) height 3.5m (11.48in) = 1680N/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)

