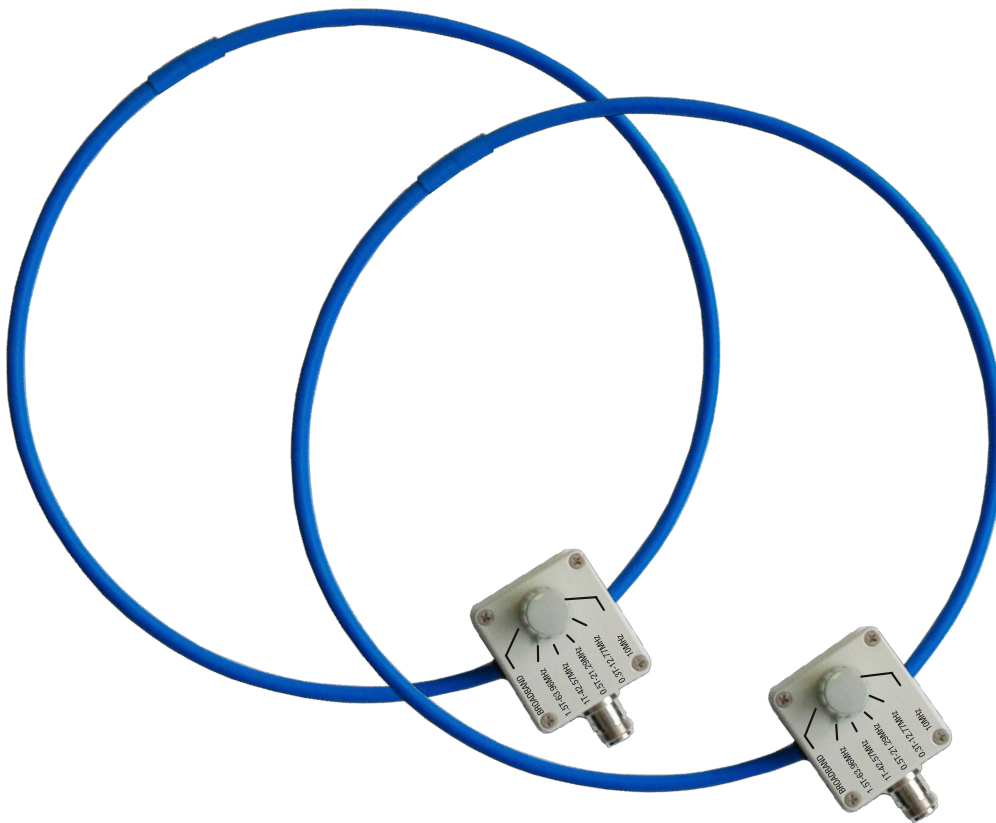


## L4

TUNED LOOP ANTENNA

FREQUENCY RANGE 2 MHz - 128 MHz



The L4 is a passive tuned loop antenna for the magnetic component of the electromagnetic field. It allows standard wide band measurements or selective measurements, by tuning the antenna on one of the five preset frequencies.

This antenna is ideal for measuring the magnetic field in different types of MRI (0.3 T, 0.5 T, 1 T, 1.5 T, 3 T) and for shielding effectiveness measurements.



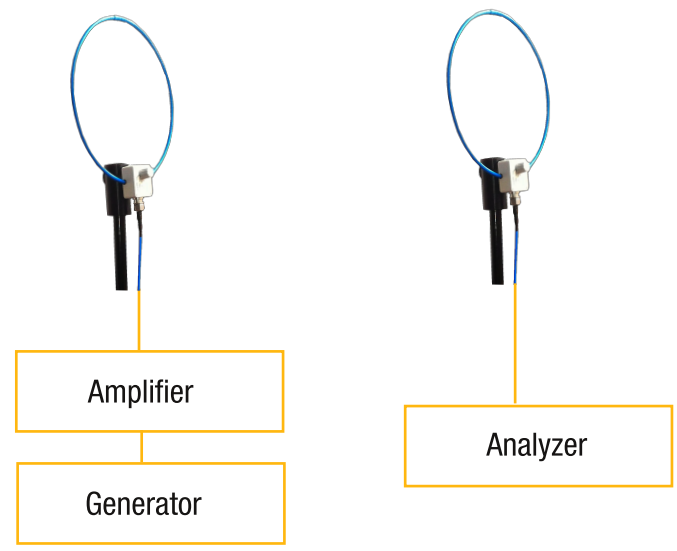
# CONFIGURATION

The L4 works both with the SEMS system and as a traditional antenna with generator, amplifier and spectrum analyzer. Through this antenna, it is possible to obtain a dynamic up to 20 dB greater than a traditional loop, when performing the differential measure for shielding effectiveness testing.

SEMS configuration



Standard configuration



# TECHNICAL SPECIFICATIONS

Frequency range	2 MHz ..... 128 MHz
Configuration	6 positions
Dynamic (zero at 60 cm) broadband	
10 MHz +/- 50 kHz	111 dB
12.77 MHz +/- 100 kHz	111 dB
21.29 MHz +/- 200 kHz	106 dB
42.57 MHz +/- 1 MHz	105 dB
63.96 MHz +/- 1 MHz	110 dB
127.72 MHz +/- 1 MHz	105 dB MRI at 3 T
Dynamic (zero at 60 cm) tuned	
10 MHz +/- 50 kHz	131 dB
12.77 MHz +/- 100 kHz	131 dB MRI at 0.3 T
21.29 MHz +/- 200 kHz	125 dB MRI at 0.5 T
42.57 MHz +/- 1 MHz	123 dB MRI at 1 T
63.96 MHz +/- 1 MHz	121 dB MRI at 1.5 T
Dimensions	30 cm diameter
Weight	350 g
Connector	N(f)
Power	max 10 Watts

Subject to change without notice



MPB srl  
Headquarters - Place of Business  
Laboratory  
Via Giacomo Peroni, 400/402 00131 - Roma

T +39 06 41200744  
F +39 06 41200653

www.gruppompb.uk.com  
info@gruppompb.com