

SPECIFICATIONS:

Electrical:	
Frequency range	100 kHz – 50 MHz
VSWR	< 3 : 1
Nominal input impedance	50 Ω
Power consumption	500 mW
External power input	9 – 30 V
Battery voltage	9 V
Amplifier gain	17 ± 3 dB
Amplifier noise figure	≥ 7 dB
Amplifier OIP3	≥ 35 dBm
Antenna Factor	See graph
3 dB Beamwidth	90°
Null depth	(0-30 MHz) >20 dB (30-50 MHz) >10 dB
Polarisation (Vertical)	Linear
Connector	N-type female
Mechanical:	
Dimensions (l x w x d)	300 x 430 x 22 mm
Total Mass	600 g
Colour	Black
Mounting Method	Hand held, with threaded socket for tripod mounting
Cable Length	1.5 m
Environmental:	
Wind survival	160 km/h
Temperature range	-20° C to +70° C
Shock	40 G at 10 msec
Water Ingress Rating	IP65 (NEMA 4X)

PRODUCT FEATURES

- Compact, self-contained loop antenna
- Active amplifier for optimal sensitivity
- High IP3 amplifier for minimum breakthrough of unwanted signals

APPLICATIONS

- Low frequency monitoring
- Direction finding

PRODUCT DESCRIPTION:

This handheld active loop antenna is used for monitoring and direction finding of low frequency signals. Its simple waterproof rugged construction allows it to be used anywhere, and its active amplifier ensures the best available sensitivity at all frequencies.

The lower frequency limit is stated as 100 kHz, but the antenna continues to work down to 9 kHz with correspondingly reduced sensitivity.

The loop can be used for direction finding by rotating it about its axis, searching for the signal "null". The antenna null is in the direction perpendicular to the loop.

A battery compartment in the handle holds the required battery, external power can also be supplied.

This antenna complements the DF-A0010 handheld DF range, providing a complete solution covering 100 kHz – 3 GHz.

Active Loop Antenna

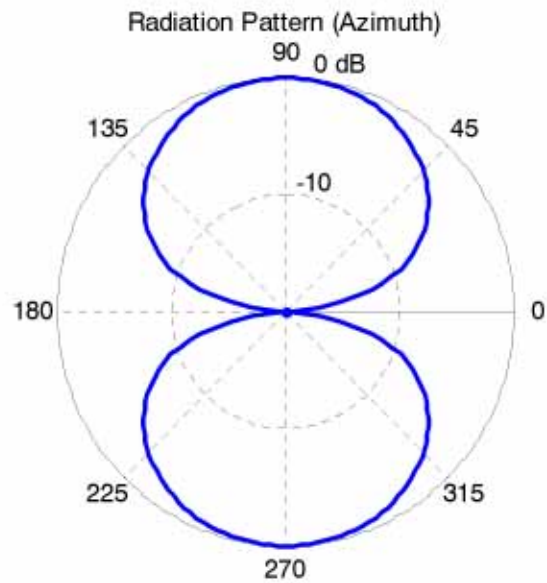
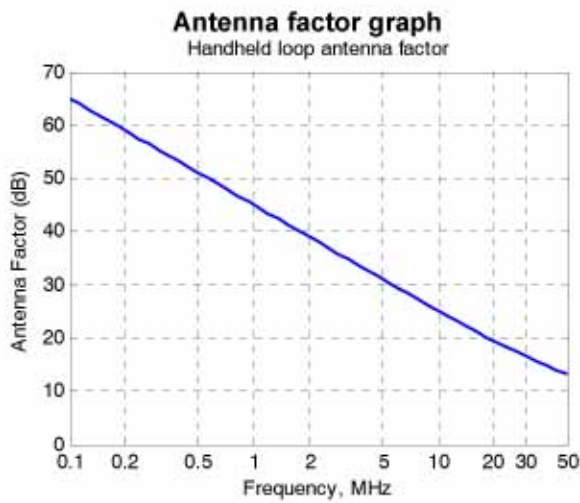
100 kHz - 50 MHz

Product Code: DF-A0033

PRODUCT STATUS: Concept

VERSION: 1.0

ANTENNA FACTOR AND RADIATION PATTERN



DIMENSION DRAWING

