

Description

The SUBECHO-150 UWB VHF GPR-antenna provides the highest resolution in our line of high penetration antennas. The SUBECHO-150 can be used in air-coupled and airborne applications.

This antenna is fully compatible with GSSI plug-in electronics: 769DA2, 778 and 766DA allowing mono- and bi-static operation (two antennas).

Applications

- Embankment dam safety control, structure/voids
- Mapping of fracture zones in bedrock with overburden
- Sand and gravel deposit surveys
- Geo-hydrological and glaciological surveys



Technical Data

Electrical	
Type of device	Resistively loaded butterfly folded dipole
Peak frequency ¹	113 MHz
Impedance at the peak frequency ²	32 Ohms
Center frequency (BW _{10dB}) ²	106.25 MHz
10 dB bandwidth ²	110 %
DC resistance at antenna terminals	234 Ohms
Maximum applied power ³	1kW
Front to back ratio ¹	0 dB
Gain ¹	2 dB
Connector type	4597 COMPAR DZM-6 DREH
Environmental	
Operating temperature	-30°C to 70°C (-22F to 158F)
Operating humidity (non condensing)	96% RH
Ingress protection	IP54
Mechanical	
Dimension (L x W x H)	1090 x 210 x 260 mm (42.91 x 8.26 x 10.23 inch.)
Weight	3.9 kg (8.59 pounds)
Material	ABS plastic, UV resistant up to 10 years

Notes: ¹Dielectric constant = 4. ²Dielectric constant = 6. ³ Duty cycle below 1%.

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Contact information

Info Brazil
Tel.: 21 2556-1295
www.alphageofisica.com.br

