

Description

The SUBECHO-70 is a smaller version of the popular SUBECHO-40. It is a UWB VHF GPR portable lightweight antenna with high penetration and improved resolution. The SUBECHO-70 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

- Deep geological and geo-technical surveys
- 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	89 MHz
Impedance at the peak frequency ²	39 Ohms
Center frequency (BW _{10dB}) ²	82.7 MHz
10 dB bandwidth ²	87 %
DC resistance at antenna terminals	270 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)	1140 x 155 x 215 mm (44.88 x 6.1 x 8.46 inch.)
Weight	3.75 kg (8.26 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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