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AD-27/V150-3512-DF-A Antenna rev A Product datasheet

Product Overview

The antenna AD-27/V150-3512-DF-A is a dual-band, dual-feed short mobile VHF/UHF antenna for frequencies ranging from 30 to 88 and 225 to 512 MHz. The antenna diplexer is built inside the antenna housing, enabling connection of the two separate VHF and UHF radio units on the same antenna.

The antenna is composed of two main parts: antenna base and radiating element. The antenna base is made of aluminium and durable plastic materials. Inside the base, the diplexer and matching circuit are mounted. A high-grade stainless steel spring absorbs shocks and vibrations, protecting the antenna against impact. Radiating elements are made of composite materials, designed for outstanding strength and ruggedness even in the harshest use conditions.

The antenna base has four mounting holes equally spaced on a 4.5" (114.3 mm) diameter complying with NATO standards. Different base plate dimensions are available on request. The antenna radiator is painted with military green (RAL- 6014) two-component UV resistant paint.

Technical Specification

Electrical Specification

Frequency range	30 – 88 MHz & 225 - 512 MHz
Impedance	50 ohms
VSWR	< 3.5 typical (see diagram)
Gain	-8 dBi to +2 dBi
Polarization	Vertical
Connector VHF	BNC female
Connector UHF	N female
Maximum power	75 W CW (100 W max)
Surge Protection for VHF & UHF: - DC spark over voltage - Nominal impulse discharge current - Nominal alternate discharge current	 600 V 20 kA (wave 8/20 µs) 20 A

Mechanical Specification

Design	Dual antenna
Height	1500 mm
Weight - antenna	4.4 kg
Temperature range - in use	-50 to +55 °C
Temperature range - in stock	-55 to +75 °C
Max. high voltage rating	16 kV
Wind rating	45 m/s (160 km/h)
Colour	MIL Green / Black mount

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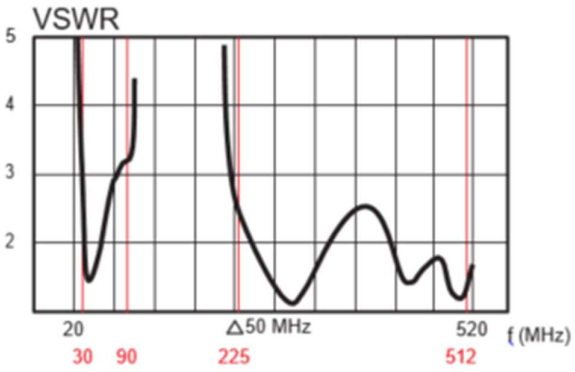

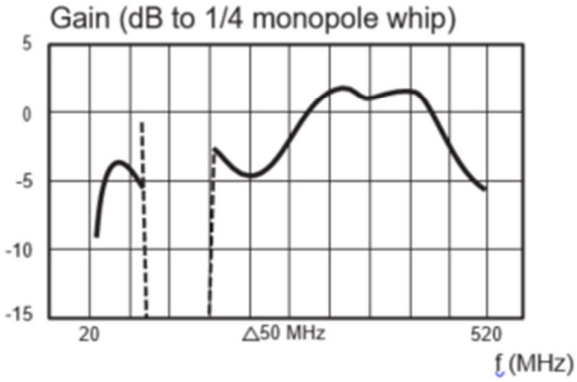

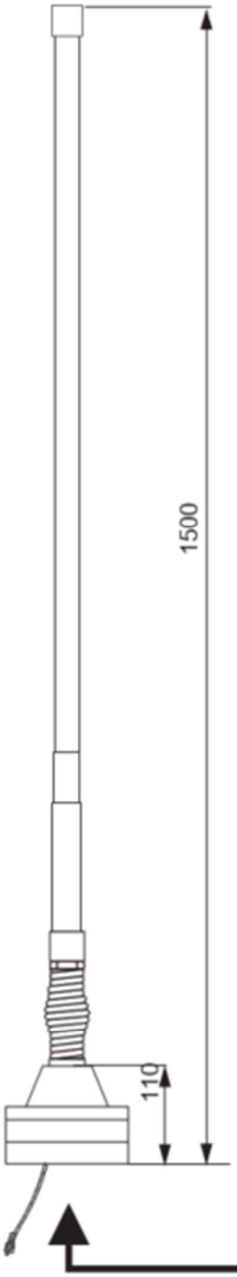

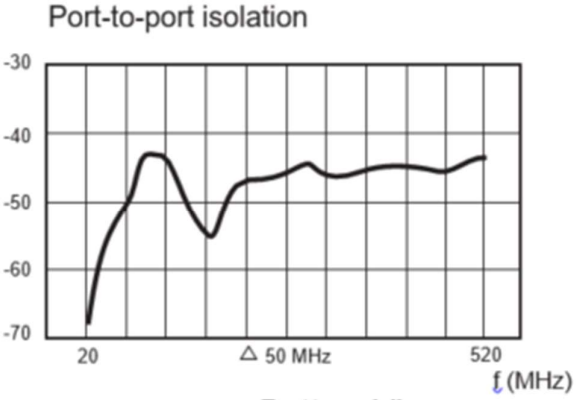

Bottom View