

The antenna AD-27/V150-3512-DF-A is a dual-band dual-feed short mobile VHF/UHF antenna for frequency range from 30 to 88 and 225 to 512 MHz with the antenna diplexer 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 aluminum and durable plastic materials. Inside the base is the diplexer circuitry and the matching circuit. Stainless steel spring absorbs the shocks and the vibrations, in addition protects the antenna against impacts. Radiating element is made of composite materials which enables outstanding strength and roughness even in hardest conditions of use.

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

ELECTRICAL SPECIFICATIONS:	
Frequency range (MHz)	30 - 88 (VHF); 225 - 512 (UHF)
Impedance (Ohms)	50
VSWR	< 3,5
Gain (dB)	-8 ... +2 (see diagram)
Port to port isolation (dB)	> 40
Polarization	vert.
Maximum power (W)	75 CW avg.; 100 max.
Connector:	
- VHF	BNC female
- UHF	N female
Surge protection for VHF and UHF	Built in the antenna base
- DC spark over voltage	600V
- Nominal impluse discharge current (wave 8/20 us)	20 kA
- Nominal alternate discharge current (50 Hz, 1s)	20 A
MECHANICAL SPECIFICATIONS:	
Height (m)	1.50 m
Weight (kg)	4.3 kg
Max. high voltage rating (kV)	16 kV
Temperature range - in use (°C)	-50 ... +55 °C
Temperature range - in stock (°C)	-55 ... +75 °C
Wind rating (km/h)	160
Color	MIL Green - Black

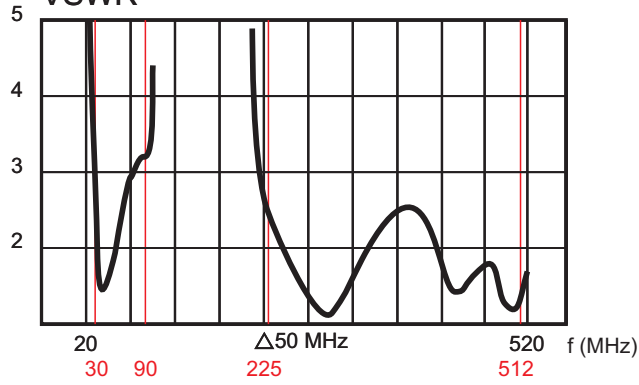


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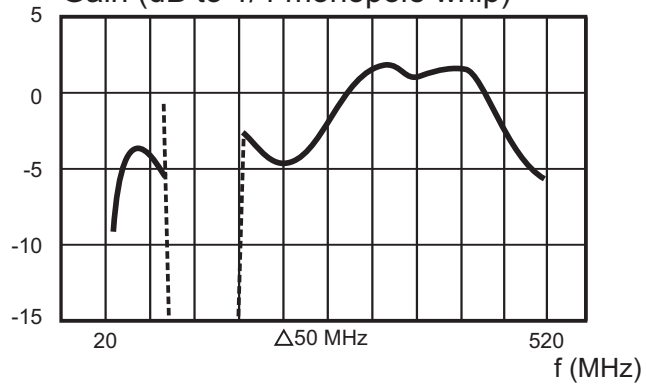
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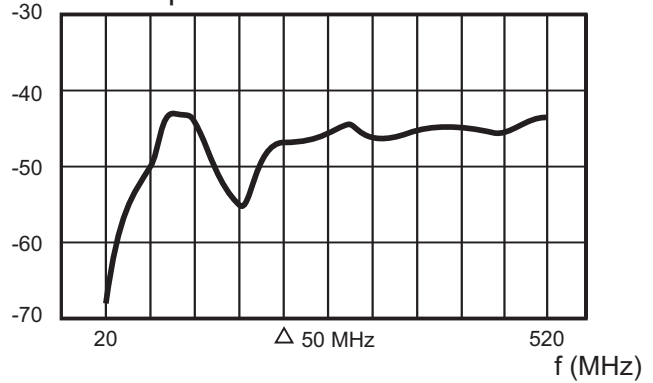
VSWR



Gain (dB to 1/4 monopole whip)



Port-to-port isolation



Bottom View

