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AD-27/DB-15-73

The antenna AD-27/DB-15-73 is a "center-fed" type mobile UHF antenna for the frequency range from 100 - 512 MHz and 700 - 3000 MHz, mainly intended for use in heavy-duty mobile applications. The antenna is designed as a dipole in both UHF bands and does not require any ground plane, so the electrical performance (GAIN and VSWR) of the antenna is always the same. This specific antenna design allows various types of mounting.

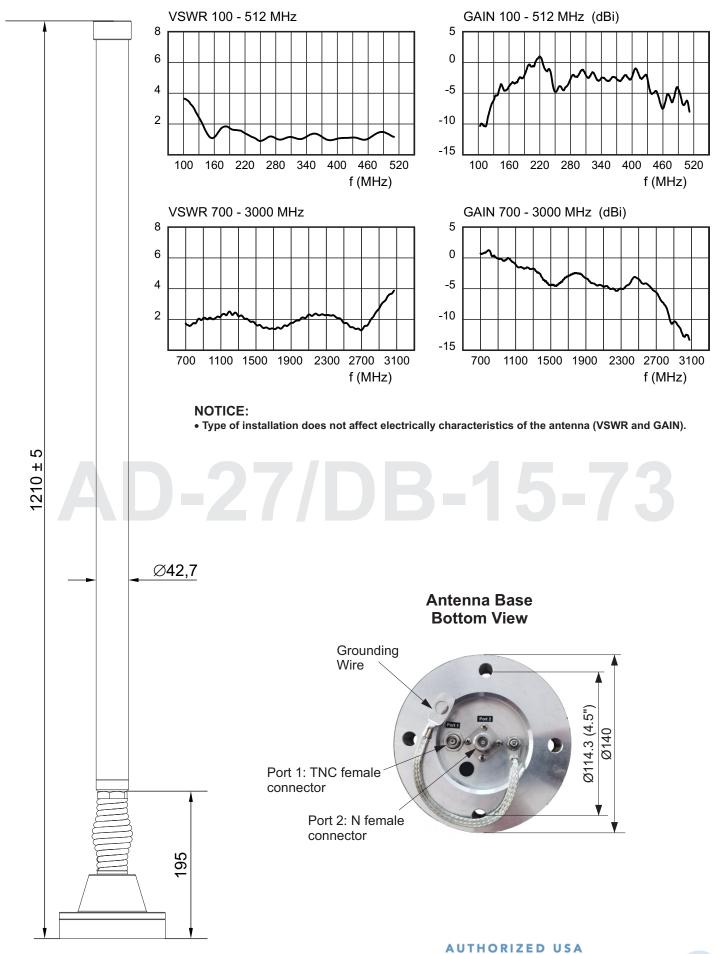
The antenna is composed of a base and radiating element, which is not detachable.

The antenna base is made of aluminum and durable plastic materials. Big stainless steel spring absorbs the shocks and vibrations, also, protects the antenna against impacts. The antenna base has NATO standard four mounting holes equally spaced on a 4.5" (114.3 mm) circle.

The radiating element is made of composite material that enables outstanding strength and roughness even in the hardest conditions of use. The antenna radiating element is painted with black two-component UV-resistant paint. Other colors and connectors are available on request.

ELECTRICAL SPECS.: Frequency range - Port 1 Frequency range - Port 2 Impedance VSWR - Port 1 VSWR - Port 2 Gain Polarization Radiation Pattern Maximum power Connector - Port 1 Connector - Port 2	100 - 512 MHz 700 - 3000 MHz 50 ohms < 3.5 < 3.5 See diagram Linear Vertical Omnidirectional 80 W CW TNC female N female
MECHANICAL SPECS: Design Height Weight Max. high voltage rating Wind rating Color	Dipole (100 - 512 MHz) & Dipole (700 - 3000 MHz) 1210 mm 4.2 kg 16 kV 45 m/s (160 km/h) Black
ENVIRONMENTAL SPECS: High Temperature - Storage High Temperature - Operating Low Temperature - Storage Low temperature - Operating Humidity Solar radiation Rain Icing/Freezing Rain Sand and Dust Vibration Shock-Transit Drop Contamination by Fluids Oak-beam test EMP Protection	MIL-STD-810G; Method 501.5; Proc. I; +75 °C for 96h MIL-STD-810G; Method 501.5; Proc. II; +65 °C for 16h MIL-STD-810G; Method 502.5; Proc. I; -55 °C for 96h MIL-STD-810G; Method 502.5; Proc. II; -40 °C for 16h MIL-STD-810G; Method 507.5; 10 cycles of 24 h; 95% MIL-STD-810G; Method 506.5; Proc. I; 3 cycles MIL-STD-810G; Method 506.5; Proc. III MIL-STD-810G; Method 506.5; Proc. I and II MIL-STD-810G; Method 510.5; Proc. I and II MIL-STD-810G, Method 514.6; Proc. I MIL-STD-810G, Method 514.6; Procedure IV MIL-STD-810G, Method 504.1, Procedure IV MIL-STD-810G, Method 504.1, Procedure II (Fuels, Hydraulic Oils and Lubricating Oils acc. to the Table 504.1-1.) 20 hits on 100 mm oak beam at speed 25 km/h MIL-STD 461E RS105





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