

# AD-55/A Antenna *Product datasheet (Provisional)*

## Product Overview

The AD-55/A antenna is an ultra-wideband antenna intended for use with modern broadband software-defined radios (SDR) and other radio devices (EW, SIGINT, etc.). The antenna is a sleeve dipole center-fed design, enabling it to work without the presence of a ground plane ideal for dismounted or manpack equipment. The radiation part of the antenna is fully enclosed in a durable fiberglass radome. The antenna is also equipped with a spring element, allowing protection for direct equipment mounting or for vehicle use. The antenna construction is rugged and intended for use in the harshest military environments.

## Technical Specification

### Electrical Specification

Frequency range	400 - 2800 MHz
Impedance	50 ohms
VSWR	< 3:1 typical (see diagram)
Gain	-4 dBi to +2 dBi
Polarization	Vertical
Connector	N male
Maximum power	50 W CW

### Mechanical Specification

Design	UHF Dipole Antenna
Height	433 mm
Weight	665 g
Diameter	28 mm
Temperature range - in use	-50 to +55 °C
Temperature range - in stock	-55 to +75 °C
Colour	Black

### Environmental Specification (per MIL-STD-810G)

High Temperature - Storage	+85 °C Method 501.5 Proc. I
High Temperature - Operating	+85 °C Method 501.5 Proc. II
Low Temperature - Storage	-50 °C Method 502.5 Proc.
Low Temperature - Operating	-40 °C Method 502.5 Proc. II
Humidity	Method 507.5 Proc.
Salt	Method 509.5
Fog	Method 514.6 Proc.
Vibration	Method 512.5 Proc.
Immersion Rain	Method 506.4 Proc.
Sand and Dust	Method 510.5 Proc.
Solar Radiation	Method 505.5 Proc.
Fungus	Method 508.5
Altitude	Method 500.5 Proc. I

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