AD-39/2160-AW

The AD-39/2160-AW is a dipole antenna designed for stationary use on VHF frequencies from 20 to 160 MHz. It consists of a matching unit at the center with a balun transformer and two dipoles. The matching unit is housed in aluminum, while the dipoles are enclosed in a wide fiberglass tube, making the structure lightweight and strong. Stainless steel and aluminum parts are black passivated or protected by black cataphoresis, while fiberglass parts are black painted.

The mechanical design ensures durability in harsh weather conditions with heavy ice loads and heavy winds. The mounting accessories allow installation on square or round tubes with diameters up to 120 mm. The antenna can be installed in vertical or horizontal polarization mode.

ELECTRICAL SPECS.:	
Frequency range	20 - 160 MHz
Impedance	50 ohms
VSWR	< 3
Gain	See diagram
Polarization	Vertical
Radiation Pattern	Omnidirectional
Maximum power	200 W CW
Connector	N female
MECHANICAL SPECS:	
Design	Dipole
Height	4000 mm
Weight	15 kg
Wind rating	200 km/h (no ice) 150 km/h (with 20 mm uniform radial ice)
Color	Black
ENVIRONMENTAL SPECS:	
High Temperature - Storage	MIL-STD-810G; Method501.5; Proc. I; +75 °Cfor 96h
High Temperature - Operating	MIL-STD-810G; Method501.5; Proc. II; +65 °Cfor 16h
Low Temperature - Storage	MIL-STD-810G; Method502.5; Proc. I; -55 °Cfor 96h
Low temperature - Operating	MIL-STD-810G; Method502.5; Proc. II; -40 °Cfor 16h
Humidity	MIL-STD-810G; Method507.5; 10 cycles of 24h; 95%
Solar radiation	MIL-STD-810G; Method505.5; Proc. I; 3 cycles
Rain	MIL-STD-810G; Method506.5; Proc. III
Icing/Freezing Rain	MIL-STD-810G; Method521.5
Sand and Dust	MIL-STD-810G; Method510.5; Proc. I and II
Vibration	MIL-STD 810G, Method514.6; Proc. I
Shock-Transit Drop	MIL-STD-810G, Method516.6, Procedure IV