AD-39/2512-AW

The AD-39/2512-AW is a dipole antenna designed for stationary use on VHF and UHF frequencies from 20 to 620 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 - 620 MHz
Impedance	50 ohms
VSWR	< 3.5
Gain	See diagram
Polarization	Vertical
Radiation Pattern	Omnidirectional
Maximum power	200 W CW
Connector	N female
MECHANICAL SPECS:	
Design	Dipole
Height	3000 mm
Weight	13.8 kg
Max survival wind speed	200 km/h (no ice) 150 km/h (with 20 mm uniform radial ice)
Color	Black
ENVIRONMENTAL SPECS:	
High Temperature - Storage	MIL-STD-810G; Method 501.5; Proc. I; +75 °C for 96h
High Temperature - Operating	MIL-STD-810G; Method 501.5; Proc. II; +65 °C for 16h
Low Temperature - Storage	MIL-STD-810G; Method 502.5; Proc. I; -55 °C for 96h
Low temperature - Operating	MIL-STD-810G; Method 502.5; Proc. II; -40 °C for 16h
Humidity	MIL-STD-810G; Method 507.5; 10 cycles of 24 h; 95%
Solar radiation	MIL-STD-810G; Method 505.5; Proc. I; 3 cycles
Rain	MIL-STD-810G; Method 506.5; Proc. III
Icing/Freezing Rain	MIL-STD-810G; Method 521.5
Sand and Dust	MIL-STD-810G; Method 510.5; Proc. I and II
Vibration	MIL-STD 810G, Method 514.6; Proc. I
Shock-Transit Drop	MIL-STD-810G, Method 516.6, Procedure IV

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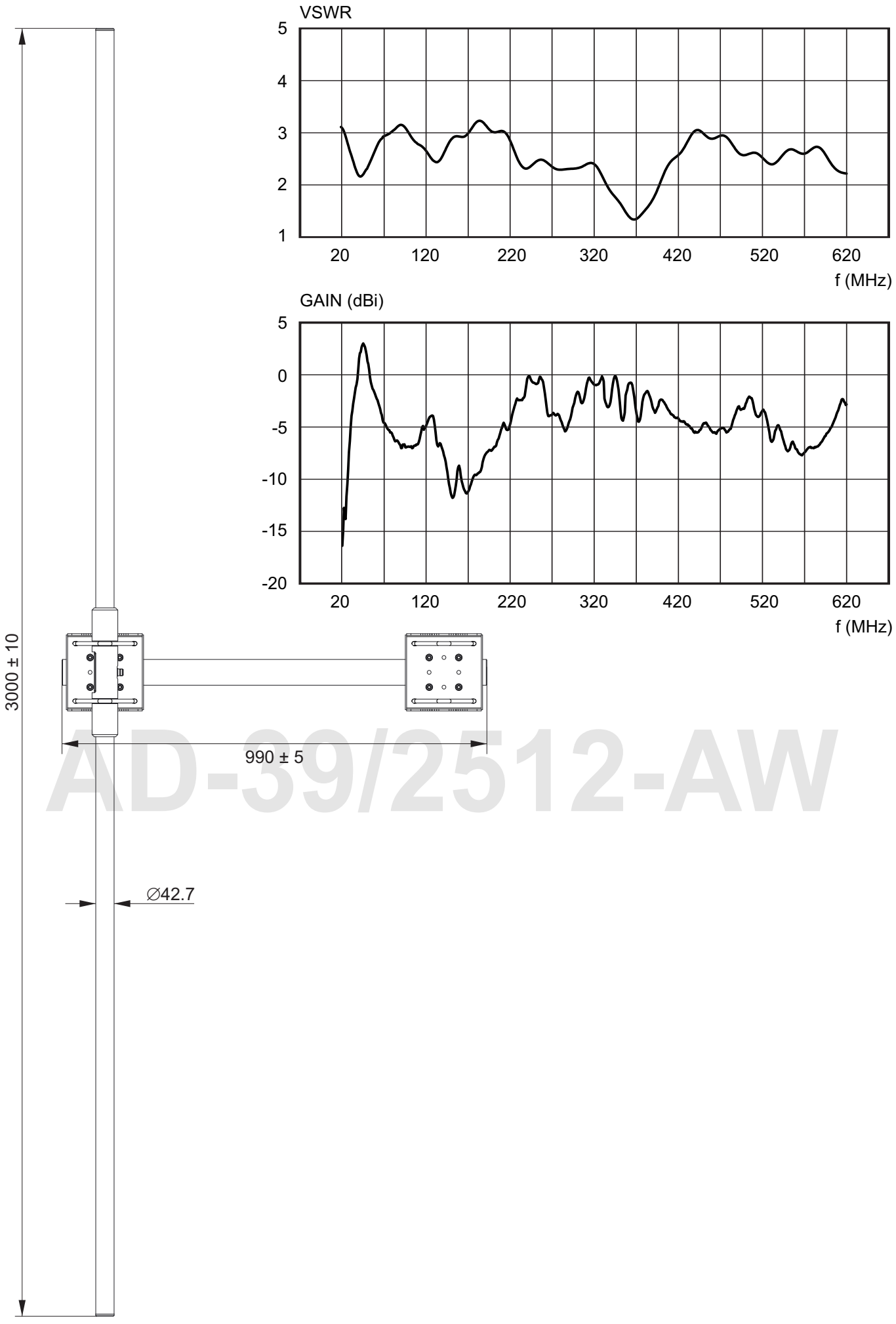
VSWR
5
4
3
2
1
20
120
220
320
420
520
620
f (MHz)
GAIN (dBi)
5
0
-5
-10
-15
-20
20
120
220
320
420
520
620
f (MHz)
3000 ± 10
990 ± 5
∅42.7