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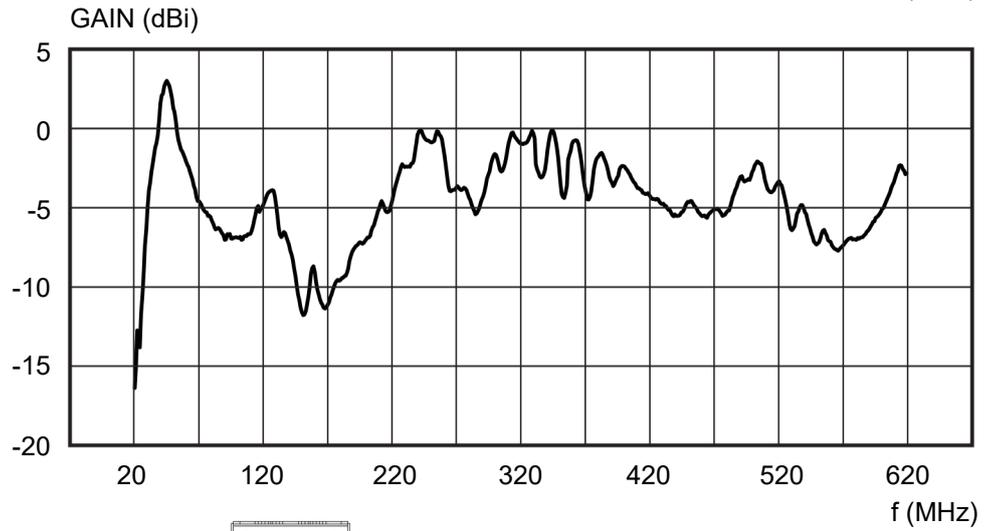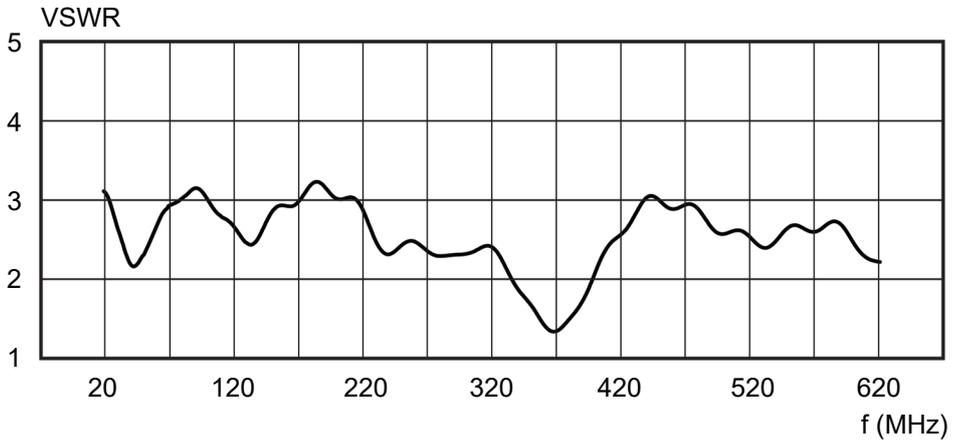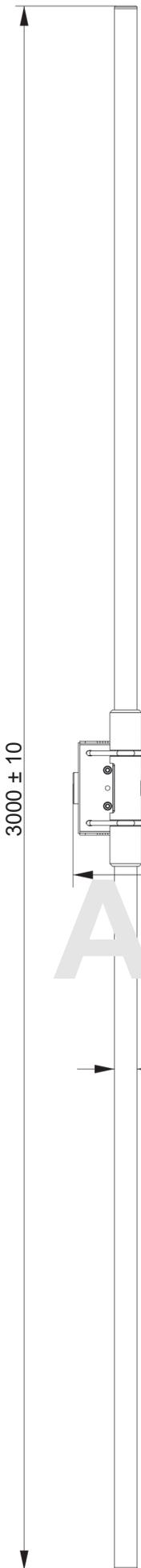781-430-0675

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customer attuned

TRIVAL antene

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 Height Weight	Dipole
Max survival wind speed	3000 mm
	13.8 kg
	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

VSWR

f (MHz)

GAIN (dBi)

f (MHz)

3000 ± 10

Ć42.7

990 ± 5

AD-3 9/2512-A