

World's Leading Manufacturer Of Fibreglass Whip Antennas



SPECIALISTS FOR VERY HIGH FREQUENCY

VAS-108-01 VHF Vehicular Antenna

THE VAS-108-01 IS A BROADBAND VEHICULAR WHIP ANTENNA SYSTEM DESIGNED SPECIFICALLY FOR TACTICAL VHF JAMMING APPLICATIONS. THE ANTENNA ALSO FUNCTIONS WELL TO PROVIDE RELIABLE VHF COMMUNICATIONS FOR A RANGE OF MILITARY VEHICLES WHEN USED WITH A FREQUENCY AGILE RADIO THAT OPERATES WITHIN ITS EXTENDED VHF FREQUENCY BAND OF 25-88 MHZ.

THE COMPLETE ANTENNA SYSTEM IS COMPRISED OF AN UPPER WHIP, A LOWER WHIP AND AN INSULATED MOUNTING BASE. THE TWO WHIPS THREAD TOGETHER BY HAND WHICH THEN SCREW ONTO THE BASE TO COMPLETE THE SYSTEM.

THE INSULATED MOUNTING BASE HOUSES THE IMPEDANCE MATCHING NETWORK WHICH PROVIDES A VSWR OF LESS THAN 3.5:1 ACROSS THE OPERATING FREQUENCY BAND. THE MATCHING NETWORK IS CAPABLE OF CONTINUOUS TRANSMIT POWER LEVELS OF UP TO 100 WATTS.

THE VAS-108-01 PROVIDES MANY SAFETY FEATURES, BOTH FOR THE USER AND THE EQUIPMENT ATTACHED, INCLUDING: HIGH VOLTAGE ISOLATION UP TO 10 KV(RMS) IN THE WHIP SECTIONS IN CASE OF ACCIDENTAL STRIKE OF THE ANTENNA TO OVERHEAD POWERLINES; A MOULDED NEOPRENE RUBBER EYE PROTECTION DEVICE INSTALLED AT THE TIP OF THE WHIP; AND AN EMP (ELECTROMAGNETIC PULSE) PROTECTION DEVICE INTEGRATED WITHIN THE BASE MATCHING NETWORK.

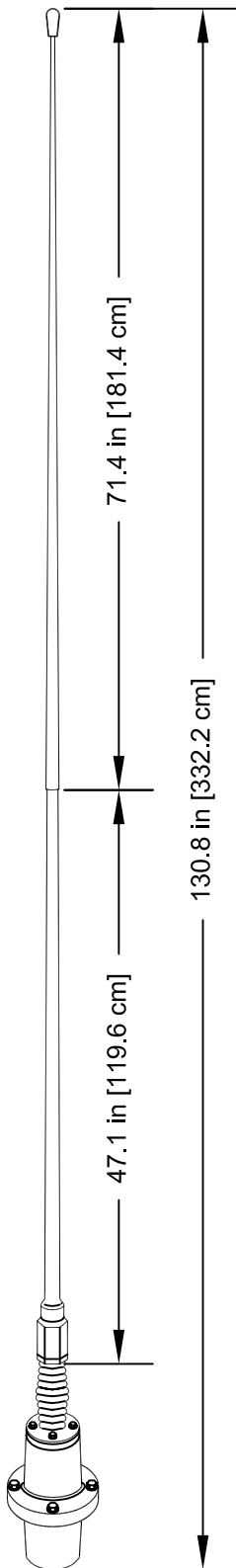
FEATURES:

- **BROADBAND WITH EXTENDED VHF RANGE**
- **EXTREMELY RUGGED AND RELIABLE**
- **BASE MOUNT FOR PLACEMENT FLEXIBILITY**
- **EASY ASSEMBLY/DISASSEMBLY**



QUICK REFERENCE DATA

VAS-108-01



ELECTRICAL

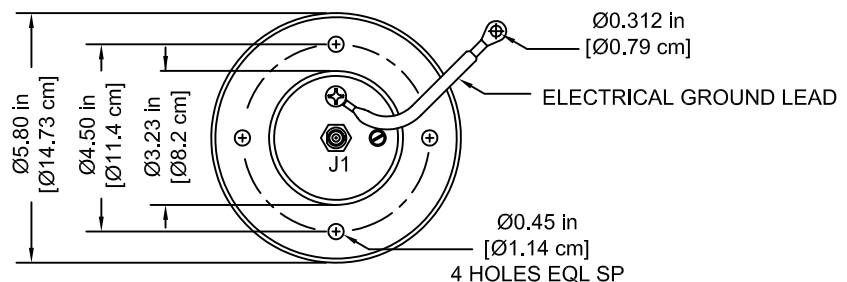
FREQUENCY RANGE	25 TO 88 MHz
RADIATION PATTERN	OMNIDIRECTIONAL +/- 1dB
VSWR	3.5:1 MAXIMUM 2.5:1 AVERAGE
POLARIZATION	VERTICAL
POWER HANDLING	100 WATTS CONTINUOUS FOR 60 MIN
HIGH VOLTAGE ISOLATION	10 KV (RMS)
NOM INPUT IMPEDANCE	50 OHMS
INPUT CONNECTOR	BNC

MECHANICAL

WEIGHT	10.5 LBS (4.76 KG)
INSTALLED HEIGHT	127.5 INCHES (3.24 M)
OVERALL HEIGHT	130.8 INCHES (3.32 M)

ENVIRONMENTAL

TEMPERATURE	-60°F TO +160°F (-51°C TO +71°C)
VIBRATION	MIL-STD-810D, METHOD 514.3, PROC 2, CAT 3
WIND VELOCITY	50 MPH (80 KPH) OPERATING
ICE LOADING	1/2 INCH (13 MM) RADIAL
SHOCK	I) IMPACT - 25 BLOWS AGAINST 4X4 OAK BEAM AT 25 MPH II) BALLISTIC SHOCK TO MIL-S-901, TYPE A
FUNGUS	MIL-STD-810 METHOD 508.1 (28 DAYS)
IMMERSION	MIL-STD-810 METHOD 512.1
SALT FOG	MIL-STD-810 METHOD 509.1 (48 HR EXPOSURE)
RAIN	MIL-STD-810 METHOD 506.1 PROCEDURE I



BOTTOM VIEW



P.O. BOX 603 GUELPH, ONTARIO, CANADA, N1H 6L3

TEL 519-824-3220 FAX 519-824-3411

INTERNET: www.valcom-guelph.com EMAIL: enquiries@valcom-guelph.com

Specifications are subject to change without notice.