

World's Leading Manufacturer Of Fibreglass Whip Antennas



SPECIALISTS FOR VERY HIGH AND ULTRA HIGH FREQUENCIES

VDB-VHF/UHF-N Dual-Band Antenna

THE VDB-VHF/UHF-N IS A FIXED BASE, DUAL-BAND WHIP ANTENNA SYSTEM DESIGNED TO PROVIDE VHF AND UHF COMMUNICATIONS FOR A RANGE OF MILITARY APPLICATIONS. IT IS DESIGNED FOR USE WITH TODAY'S CUTTING EDGE, WIDE-BAND, FREQUENCY AGILE RADIOS AND CAN BE USED TO REPLACE A MULTIPLE ANTENNA SETUP. THE VDB-VHF/UHF-N BOASTS A POWER HANDLING CAPABILITY OF 100 WATTS PER CHANNEL AND LESS THAN 3.5:1 VSWR ACROSS THE ENTIRE OPERATING BAND.

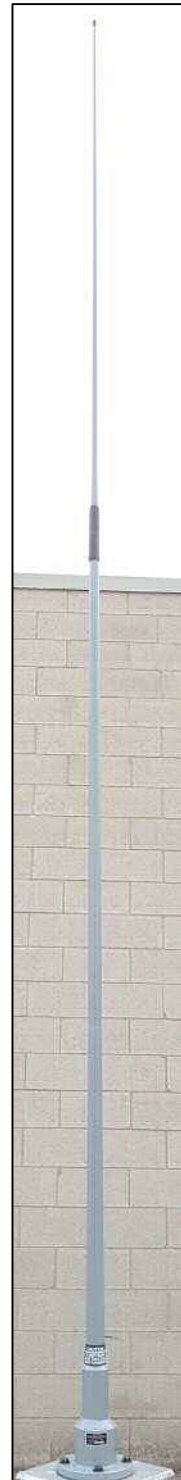
THE VDB-VHF/UHF-N WHIP ANTENNA COMES IN TWO PIECES WHICH EASILY THREAD TOGETHER TO CREATE A DIPOLE-STYLE ANTENNA SYSTEM WITH INTEGRAL MATCHING NETWORKS, ALL HOUSED WITHIN FIBREGLASS ENVELOPES. THE LOWER WHIP HAS AN INTEGRAL BASE SUPPORT WHICH ATTACHES TO THE MOUNTING STRUCTURE VIA A STANDARD NATO 4-HOLE PATTERN.

THE ANTENNA SYSTEM HAS BEEN DESIGNED TO MEET THE VIBRATION, SHOCK AND SERVICE REQUIREMENTS OF MIL-STD-167, MIL-S-901 AND MIL-STD-810. EMP (ELECTROMAGNETIC PULSE) AND HIGH VOLTAGE ISOLATION ARE ALSO INCORPORATED INTO THE VDB-VHF/UHF-N. THE UPPER WHIP SECTION PROVIDES HIGH VOLTAGE ISOLATION TO 20KVRMS PROVIDING SAFETY TO PERSONNEL AND EQUIPMENT IN THE CASE OF ACCIDENTAL STRIKE OF A HIGH VOLTAGE SOURCE.

FEATURES:

- EXTREMELY WIDE BANDWIDTH
- PERFORMS WITH OR WITHOUT A GROUND PLANE
- RUGGED AND RELIABLE DESIGN
- HIGH VOLTAGE ISOLATION FOR SAFETY
- EASY ASSEMBLY/DISASSEMBLY

* PATENT PENDING



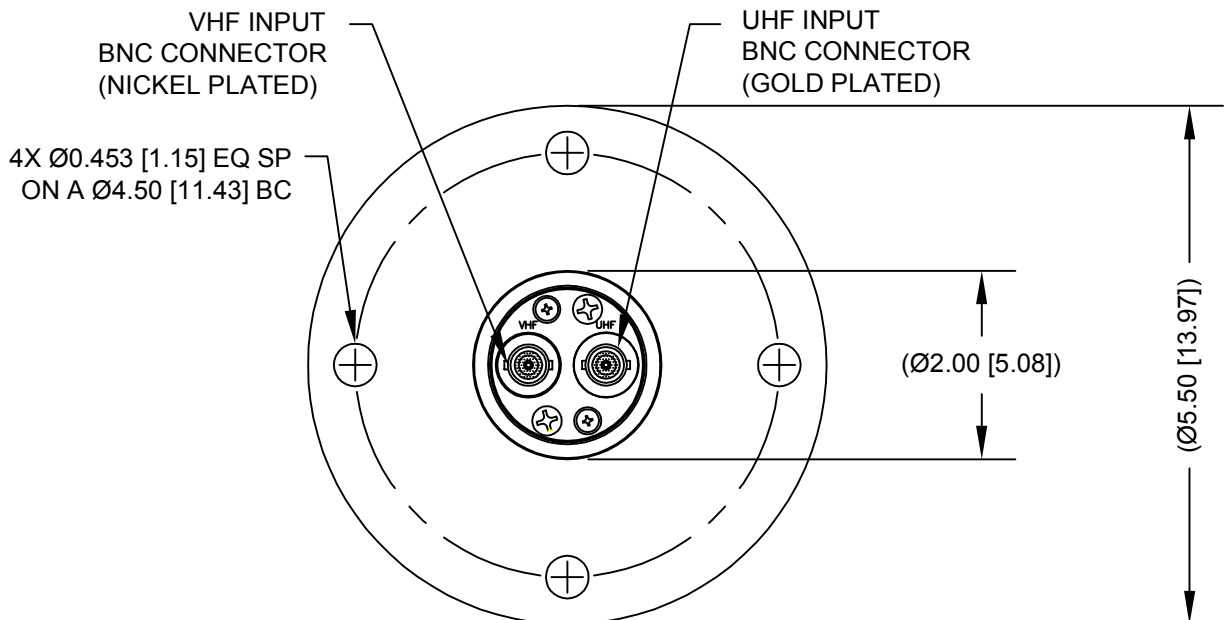
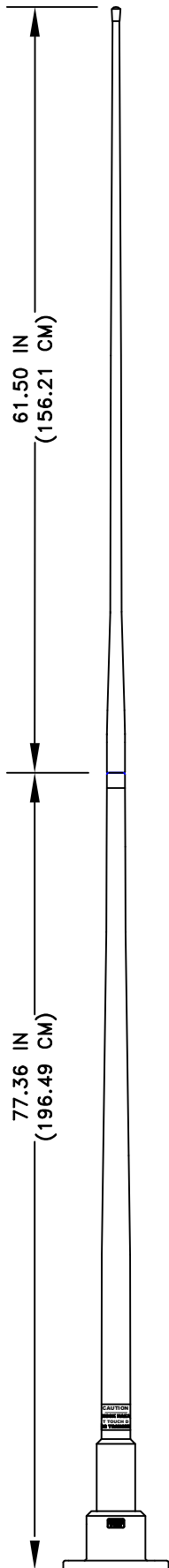
QUICK REFERENCE DATA VDB-VHF/UHF-N

ELECTRICAL

	VHF INPUT	UHF INPUT
FREQUENCY RANGE	30 - 108 MHz	115 - 512 MHz
RADIATION PATTERN	OMNIDIRECTIONAL	OMNIDIRECTIONAL
GAIN	-5.0 dBi TO +1.0 dBi	-3.0 dBi TO +3.0 dBi
VSWR	3.5:1 MAXIMUM	3.0:1 MAXIMUM
POLARIZATION	VERTICAL	VERTICAL
POWER HANDLING	100 WATTS CONTINUOUS	100 WATTS CONTINUOUS
HIGH VOLTAGE PROTECTION	TOP ELEMENT: 20kVrms LOWER ELEMENT: 10 kVrms to MIL-STD-202	
NOM INPUT IMPEDANCE	50 OHMS	50 OHMS
INPUT CONNECTOR	BNC (NICKEL PLATED)	BNC (GOLD PLATED)

MECHANICAL

WEIGHT	9.0 LBS (4.08 kg)
HEIGHT	138.86 INCHES (3.53 M)
TEMPERATURE	-60°F TO +160°F (-51°C TO +71°C)
WIND VELOCITY	100 MPH (160 KPH) OPERATING



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.

