

World's Leading Manufacturer Of Fibreglass Whip Antennas



SPECIALISTS FOR ULTRA HIGH FREQUENCY

VAS-3448 PERSONNEL LOCATION REPORTING ANTENNA

VALCOM'S VAS-3448 DIPOLE ANTENNA IS A RUGGED VERTICAL ANTENNA DESIGNED TO COVER THE FREQUENCY RANGE OF 420-450MHz. THE VAS-3448 IS IDEALLY SUITED FOR MILITARY RADIOLOCATION APPLICATIONS SUCH AS WITH THE RT-1343/TSQ-129 RECEIVER/TRANSMITTER USED IN THE POSITION LOCATION REPORTING SYSTEM (PLRS).

THE ANTENNA CAN EASILY HANDLE 10 WATTS CONTINUOUS RF POWER AND UP TO 200 WATTS PEAK RF POWER OVER THE ENTIRE FREQUENCY RANGE WITH A VSWR OF LESS THAN 2.25:1. THE RF INPUT CONNECTOR IS AN N-TYPE RECEPTACLE LOCATED AT THE BASE OF THE ANTENNA.

THE ANTENNA FEATURES A FLEXIBLE GOOSENECK AT THE BASE OF THE ANTENNA AND A FIBERGLASS ENVELOPE PROTECTING THE RADIATING ELEMENTS INSIDE. THE VAS-4245 ANTENNA EASILY AND QUICKLY CONNECTS DIRECTLY TO THE RADIO EQUIPMENT OR A REMOTE COAXIAL CABLE WITH ITS INTEGRAL N-TYPE CONNECTOR AT THE BASE.

FEATURES:

- **BROADBAND**
- **LIGHTWEIGHT AND RUGGED**
- **RECEIVING OR TRANSMITTING**



VAS-3448

QUICK REFERENCE DATA

ELECTRICAL CHARACTERISTICS

FREQUENCY RANGE	420 MHz TO 450 MHz
POLARIZATION	VERTICAL
POWER RATING	20 WATTS CW (200 W PEAK)
AZIMUTH PATTERN	OMNIDIRECTIONAL, ± 1 dB
ELEVATION PATTERN	25° MINIMUM 3 dB BEAM WIDTH
INPUT IMPEDANCE	50 OHMS (NOM)
VSWR	2.25:1 MAXIMUM
INPUT CONNECTION	N-TYPE MALE
GAIN	1 dBi (± 1 dB)

MECHANICAL CHARACTERISTICS

ANTENNA OVERALL LENGTH	29.5 IN (74.9 CM)
ANTENNA WEIGHT	1.0 LB (0.5 kg)
WIND, OPERATING	100 KM/H (62 MPH)
TEMPERATURE, OPERATING	-40°C (-40°F) TO +60°C (140°F)
FINISH	CARC GREEN
VIBRATION	MIL-STD-810F, METHOD 514.2
SHOCK	MIL-STD-810F, METHOD 516-2
HUMIDITY	MIL-STD-810F, METHOD 507

