

**World's Leading Manufacturer Of Fibreglass Whip Antennas**



**SPECIALISTS FOR ULTRA HIGH FREQUENCY**

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## **VAS-3448 PERSONNEL LOCATION REPORTING ANTENNA**

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**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, $\pm 1$ 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 ( $\pm 1$ 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

