

World's Leading Manufacturer Of Fibreglass Whip Antennas



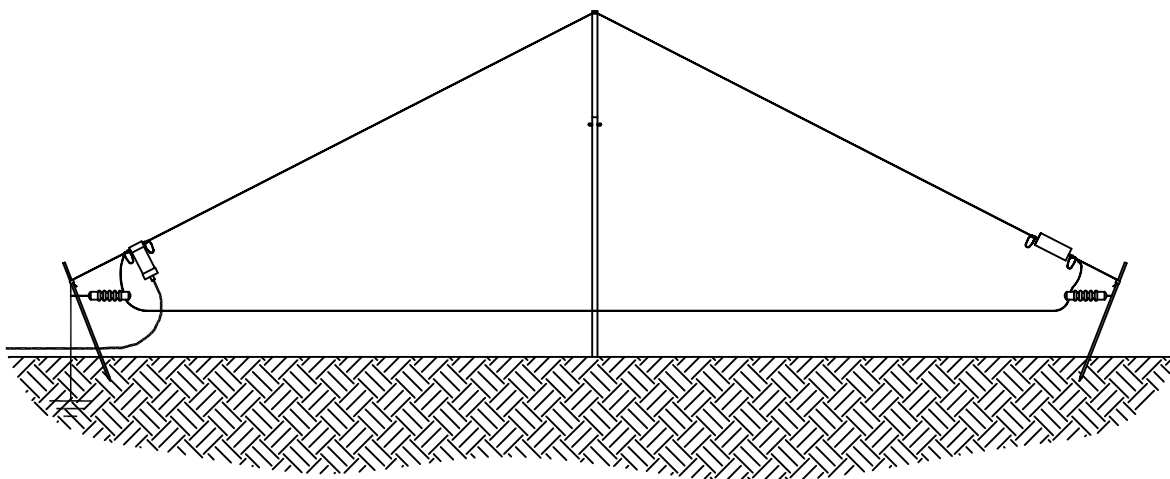
SPECIALISTS FOR HIGH FREQUENCY

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# VD-99-00182-1 SLOPING VEE ANTENNA

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NSN: 5985-21-895-5483



#### FEATURES :

- DESIGNED FOR USE IN THE 1.8 – 30 MHz BAND
- LOW VSWR AND 1kW MAXIMUM POWER CAPABILITY
- REQUIRES NO EXTERNAL TUNING
- LIGHTWEIGHT AND COMPACT FOR STORAGE
- RUGGED, WEATHER-PROOF DESIGN
- VERSATILE, MANY AVAILABLE INSTALLATION CONFIGURATIONS ARE QUICK AND EASY

# QUICK REFERENCE DATA

## VALCOM SLOPING VEE ANTENNA

THE VALCOM SLOPING VEE ANTENNA GETS ITS NAME FROM THE METHOD IN WHICH IT IS GENERALLY INSTALLED; IN AN INVERTED 'V' FASHION. THE FEED-POINT IS LOCATED AT ONE END OF THE ANTENNA WIRE, WHILE THE OTHER END HOSTS A BALANCING NETWORK. THIS ARRANGMENT PROVIDES MAXIMUM MATCHING OVER THE BROADBAND RANGE OF 1.8 MHZ TO 30 MHZ. THE ANTENNA IS DESIGNED TO HANDLE AN AVERAGE POWER OF 1000 WATTS AS WELL AS OPERATE WITH TRANSMIT/RECEIVE EQUIPMENT REQUIRING A 50 OHM ANTENNA.

VERY LITTLE IS REQUIRED TO SET-UP THE ANTENNA, AS IT IS SUPPLIED PRE-ASSEMBLED. A STURDY, NON-CONDUCTIVE MAST OF ABOUT 30 FEET IN LENGTH, TWO NON-CONDUCTIVE SUPPORT RODS AND A GROUND ROD, ARE ALL THAT IS REQUIRED. WITH A MAST OF 30 FEET, THE GROUND SPACE REQUIRED FOR INSTALLATION IS ABOUT 100 FEET. ALSO, IT CAN BE ASSEMBLED BY A SINGLE PERSON, IN ABOUT 20 MINUTES, DEPENDING ON THE COMPLEXITY OF THE MAST CHOSEN.

### ELECTRICAL CHARACTERISTICS

FREQUENCY RANGE	1.8 – 30 MHz
POWER RATING	500 W Average, 1 kW Peak
POLARIZATION	Horizontal and Vertical simultaneously *
RADIATION PATTERN, AZIMUTH	Bi-directional
IMPEDANCE	50 ohms (nominal)
VSWR	< 1.8 : 1
FEEDPOINT CONNECTOR	UHF TYPE SO-239

\* Depends on angle of installation

### MECHANICAL CHARACTERISTICS

ASSEMBLED HEIGHT	Not Critical : Recommended 30 ft (9.1 m)
ASSEMBLED DIMENSIONS	100 ft x 1 ft x 30 ft (30 m x 0.3 m x 9.1 m)
WEIGHT	5 lbs (2.3 kg)
ERECTION TIME	10 minutes
VOLUME (DISASSEMBLED)	0.5 cubic ft (0.0135 cubic m)

