

World's Leading Manufacturer Of Fibreglass Whip Antennas



SPECIALISTS FOR ULTRA HIGH FREQUENCY

AS-3957 HIGH GAIN DIPOLE ANTENNA

NSN 5985-01-277-4800

VALCOM'S AS-3957 DIPOLE ANTENNA IS A RUGGED MAST SUPPORTED VERTICALLY POLARIZED BROADBAND ANTENNA COVERING THE FREQUENCY RANGE OF 969-1206 MHz. SPECIFICALLY DESIGNED FOR THE U.S. ARMY'S JTIDS PROGRAM.

THE ANTENNA IS DESIGNED FOR USE UNDER SEVERE ENVIRONMENTAL CONDITIONS. THE RADIATING ELEMENTS ARE HOUSED IN A SINGLE PIECE FIBREGLASS RADOME WITH AN INTEGRAL ALUMINUM MOUNTING SPIGOT.

THE ANTENNA CAN HANDLE UP TO 1000 WATTS PEAK ENVELOPE POWER AND 500 WATTS AVERAGE RF POWER OVER THE ENTIRE FREQUENCY RANGE WITH A VSWR OF LESS THAN 2.0:1. THE RF INPUT CONNECTOR IS A N-TYPE RECEPTACLE LOCATED ON THE SIDE OF THE FIBREGLASS RADOME.

THE ANTENNA MEETS ALL THE REQUIREMENTS OF MIL-STD-810, INCLUDING METHOD 516-2 FOR SHOCK, AND METHOD 514.2 FOR VIBRATION AS WELL AS ALL THE SERVICE CONDITIONS OF MIL-E-16400. A LIGHTNING PROTECTION DEVICE IS INSTALLED IN THE ANTENNA AND PROTECTS AGAINST HIGH VOLTAGE BUILD UP AND EMP.

FEATURES:

- BROADBAND
- LIGHTWEIGHT AND RUGGED
- HIGH GAIN
- RECEIVING OR TRANSMITTING
- GROUND INDEPENDANT
- MIL TESTED



AS-3957

QUICK REFERENCE DATA

ELECTRICAL CHARACTERISTICS

FREQUENCY RANGE	969 MHz TO 1206 MHz
POLARIZATION	VERTICAL
POWER RATING	500 WATTS AVERAGE (1 KW PEAK)
AZIMUTH PATTERN	OMNIDIRECTIONAL
ELEVATION PATTERN	3 dB BEAM WIDTH 15° to 18°
INPUT IMPEDANCE	50 OHMS (NOM)
VSWR	2.0:1 MAXIMUM
INPUT CONNECTION	N-TYPE FEMALE
GAIN	7.5 dBi (± 1 dB)

MECHANICAL CHARACTERISTICS

ANTENNA OVERALL LENGTH	51.5 IN (130.81 CM)
ANTENNA WEIGHT	10 LBS MAX (4.54 kg)
MOUNTING POST	2.00 IN (5.08 CM) DIA X 3.45 IN (8.76 CM)
OPERATING TEMPERATURE	-45.6°C (-50.1°F) TO +71°C (160°F)
FINISH	CARC GREEN
VIBRATION	MIL-STD-810, METHOD 514.2
SHOCK	MIL-STD-810, METHOD 516-2
HUMIDITY	MIL-STD-810, METHOD 507

