

World's Leading Manufacturer Of Fibreglass Whip Antennas



SPECIALISTS FOR ULTRA HIGH FREQUENCIES

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## VWI-FI-N Naval Antenna

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PN: VC-18-00012-1

THE VWI-FI-N IS A DIPOLE-STYLE ANTENNA DESIGNED TO PROVIDE RELIABLE WI-FI UPLINKS AND DOWNLINKS FOR BASE STATION APPLICATIONS. THE VWI-FI-N BOASTS A POWER HANDLING CAPABILITY OF UP TO 25 WATTS AND LESS THAN 2.0:1 VSWR.

THE VWI-FI-N ANTENNA COMES IN A ONE PIECE CONSTRUCTION. DIPOLE STYLE RADIATORS ARE SEALED INSIDE AN INSULATING ENVELOPE WITH AN ALUMINUM MOUNTING FLANGE. A FEMALE N-TYPE CONNECTOR IS USED TO CONNECT THE ANTENNA TO WI-FI DEVICES VIA A SUITABLE COAXIAL CABLE.

THE ENTIRE ASSEMBLY IS COMPLETELY WEATHERPROOF AND RUGGED. VARIOUS OTHER MOUNTING AND CONNECTOR OPTIONS MAY BE CONFIGURED UPON REQUEST.

### FEATURES:

- PERFORMS WITH OR WITHOUT A GROUND PLANE
- LIGHTWEIGHT AND EXTREMELY RUGGED DESIGN
- SIMPLE INSTALLATION
- WEATHERPROOF AND RELIABLE DESIGN



# QUICK REFERENCE DATA VWI-FI-N

## ELECTRICAL CHARACTERISTICS

|                     |                      |
|---------------------|----------------------|
| FREQUENCY RANGE     | 2200 MHz TO 2700 MHz |
| RADIATION PATTERN   | OMNIDIRECTIONAL      |
| GAIN                | +2dBi                |
| BEAMWIDTH           | 80°                  |
| VSWR                | 2.0:1 MAXIMUM        |
| POLARIZATION        | VERTICAL             |
| POWER HANDLING      | 25 W                 |
| NOM INPUT IMPEDANCE | 50 OHMS              |
| INPUT CONNECTION*   | N-TYPE FEMALE        |

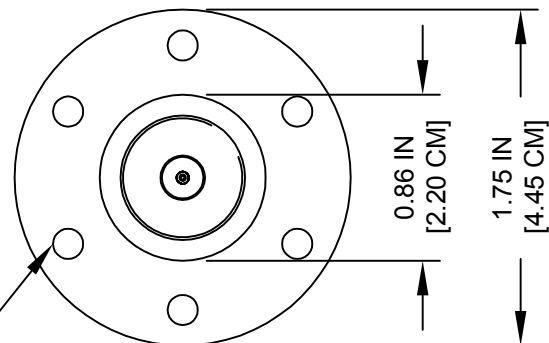
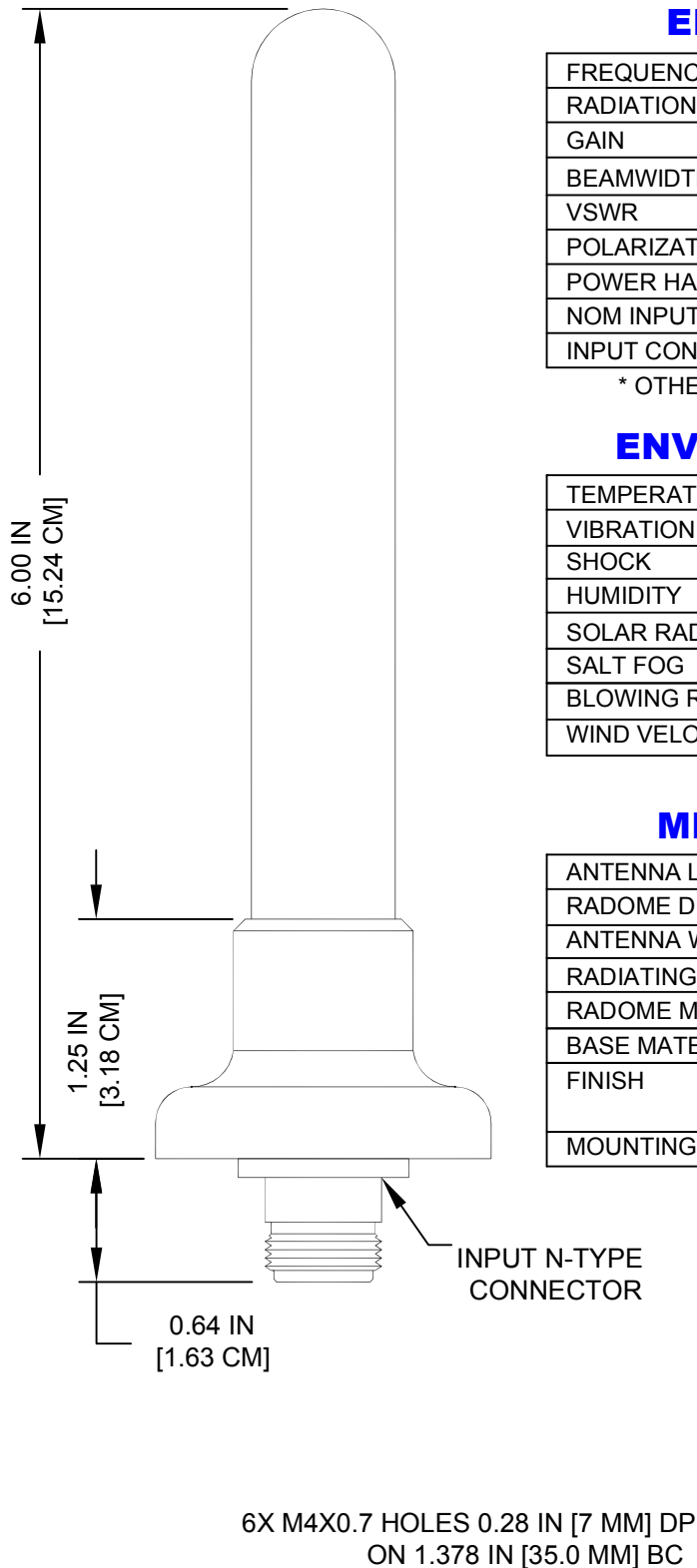
\* OTHER CONNECTOR OPTIONS MAY BE AVAILABLE

## ENVIRONMENTAL CHARACTERISTICS

|                 |   |
|-----------------|---|
| TEMPERATURE     | -40°F TO +140°F (-40°C TO +65°C)        |
| VIBRATION       | MIL-STD-167, TYPE I                     |
| SHOCK           | MIL-S-901D, GRADE A                     |
| HUMIDITY        | MIL-STD-810F, PROCEDURE III             |
| SOLAR RADIATION | MIL-STD-810F, METHOD 505.4              |
| SALT FOG        | MIL-STD-810F, METHOD 509.4              |
| BLOWING RAIN    | MIL-STD-810F, METHOD 506.4, PROCEDURE I |
| WIND VELOCITY   | 125 MPH (201 KM/H)                      |

## MECHANICAL CHARACTERISTICS

|                   |  |
|-------------------|--|
| ANTENNA LENGTH    | 6.00 IN (15.24 CM)                                     |
| RADOME DIAMETER   | 0.75 IN (1.91 CM)                                      |
| ANTENNA WEIGHT    | 0.4 LBS (0.2 KG)                                       |
| RADIATING ELEMENT | COPPER/BRASS   |
| RADOME MATERIAL   | POLYCARBONATE  |
| BASE MATERIAL     | ALUMINUM   |
| FINISH            | SILICONE ALKYD ENAMEL<br>COLOUR IAW FED-STD-595 #26270 |
| MOUNTING          | SEE BELOW  |



BOTTOM VIEW



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