



The RFID with Best ROI™

ANT-2012 UHF ANTENNA



Specifications

1. Requirements

- 1.2 Weight : This RFID module shall weigh less than 24 oz. (0.7 kg)
- 1.3 Power Supply and Consumption : N/A
- 1.4 Multi-protocol operations : Protocol agnostic.

2. Environmental Characteristics

- 2.1 General : This RFID module is intended for use in a fixed and/or mobile environment.
- 2.2 Cooling : Not required.
- 2.3 Temperature Change : -35 °C to +70 °C
- 2.4 Humidity : The RFID module shall withstand the following humidity extremes:
 - Minimum -- 0% RH
 - Maximum -- 95% RH

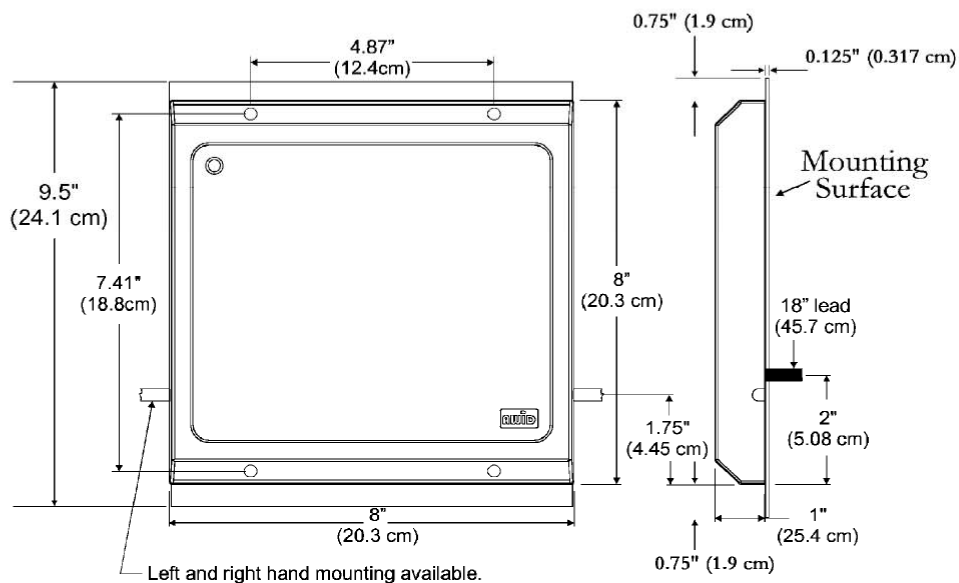
3. Reliability Requirement

- 3.2 De-Rating – AWiD's component de-rating guide.
- 3.3 MTBF TBD : Ground, Sheltered Benign

4. Antenna Electrical Specification

- 4.1 Operating Frequency -- 902 to 928 MHz center frequency
- 4.2 Gain -- 5.08 dB typical, 5.59 dB maximum
- 4.3 VSWR 1.2:1 from 902 to 928 MHz
- 4.4 3-dB Pattern -- +/- 33° of free space pattern
- 4.5 3-dB Bandwidth -- +/- 75 MHz
- 4.6 Polarization -- Right hand or Left hand pattern
- 4.7 H/V Differential -- 0.5 dB
- 4.8 Front/Back Ratio -- 15 dB
- 4.9 Power Capability -- 5 Watts max.
- 4.10 Regional Code -- US 902 to 928 MHz
 - China - 917 MHz (experimental) / Taiwan - 922 to 928 MHz / Singapore - 923 to 925 MHz / Koera (FHS) - 910 to 914 MHz / Korea (LBT) - 908.5 to 914 MHz / Australia - 918 to 926 MHz

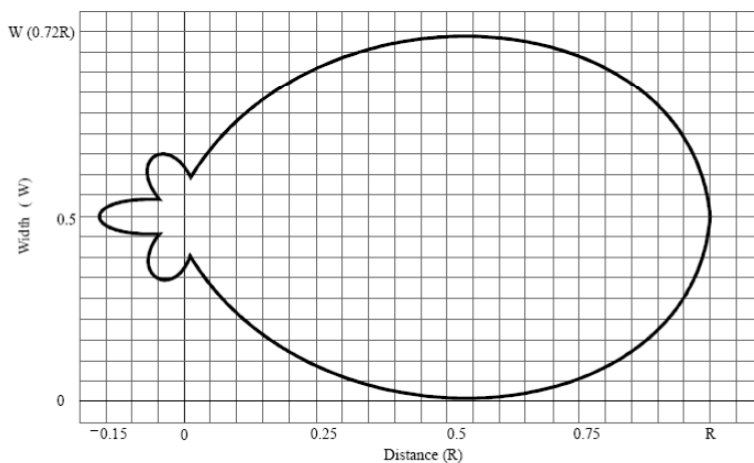
Mechanical Dimensions



Radiation Pattern

4.1.11 Radiation Pattern --

See Figure 2



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