

# Environmental Specifications of Pharad's Wearable Antennas

Pharad's line of wearable antennas have undergone environmental testing and demonstrated compliance with the following environmental specifications:

## **High Temperature - Operating**

The wearable antennas meet the requirements of constant high temperature exposure at 70 °C per MIL-STD-810F, Method 501.4, Procedure II.

## **Low Temperature - Operating**

The wearable antennas meet the requirements of constant low temperature exposure at -40 °C per MIL-STD-810F, Method 502.4, Procedure II.

## **High Temperature - Storage**

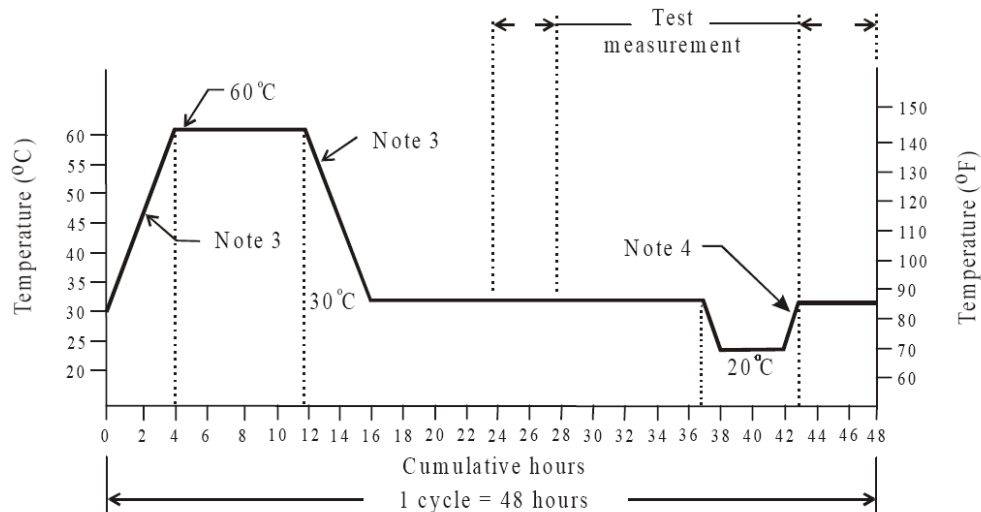
The wearable antennas meet the requirements of constant high temperature storage at 85 °C per MIL-STD-810F, Method 501.4, Procedure I, with a 3-hour temperature soak.

## **Low Temperature - Storage**

The wearable antennas meet the requirements of constant low temperature storage at -40 °C per MIL-STD-810F, Method 502.4, Procedure I, with a 4-hour temperature soak.

## **Humidity Testing**

The wearable antennas meet the requirements of exposure to 95 % relative humidity per MIL-STD-810F, Method 507.4, Procedure 4.5.2, for one 48-hour cycle. The temperature profile shown below was applied.



**Figure 1** Temperature profile for humidity testing (relative humidity = 95 %)

**Immersion**

The wearable antennas meet the requirements of 1 hour immersion at 1 meter water depth per MIL-STD-810F, Method 512.4, Procedure I.

**Shock**

The wearable antennas meet the requirements of maintaining structural and functional integrity after exposure to mechanically induced shocks arising from being dropped from a height of 48 inches over 26 drop cycles per MIL-STD-810F, Method 516.5, Procedure IV.