

## C8092 - Alpha, Beta and Gamma Pancake Geiger Counter Board



**The C8092 Geiger Counter detects Alpha, Beta and Gamma Rays by way of a SBT-11A mica window Geiger Mullen tube. To use your kit please follow a few pointers.**

1. Do not touch circuit board or tube when it is powered on.
2. Do not place on non-insulated surfaces when powered on.
3. Carefully remove tape from front of tube and never touch the exposed mica window as permanent damage will result.
4. After using the Geiger counter remember to turn unit off again.
5. If you are going to use the supplied bonus case, please see PDF info for help in creating a finished case.

### **Some Tips on Operation**

1. Depress grey plastic button on board to turn unit on. A blue green LED will light up.
2. You should immediately notice background clicking and flashes of red light from indication LED.
3. Assuming you have already removed tape from front of the tube, you can bring radioactive sources (even weak sources such as Vaseline glass) near tube, and you will notice an increase in the clicking rate.
4. Note alpha rays are stopped by even paper. So, an interesting experiment is to bring an alpha emitting source within an inch or two of the window, make a note of the quantity of clicks per minute and then repeat with various materials: paper, glass, metal blocking the sources path.
5. Finally: It is meaningless to measure the high voltage output that goes to the tube with a VOM. Even though your VOM maybe very expensive it will simply load the output and indicate between 25 to 50 VDC.