

Bill of Material

DIY Geiger Counter (www.mygeiger.org)

Resistors:

8x 10K Carbon Film Resistors 5%
1x 10K Metal Film Resistor 1%
2x 33K Metal Film Resistor 1%
1x 3K Carbon Film Resistor 5%
3x 100K Carbon Film Resistor 5%
1x 100K Metal Film Resistor 1%
11x 10M Metal Film Resistor 1%
1x 47K Carbon Film Resistor 5%
1x 470K Carbon Film Resistor 5%
1x 1K Carbon Film Resistor 5%
1x 220R Carbon Film Resistor 5%
1x 10K Side Adjust Potentiometer
1x 100R Multiturn Potentiometer 3296W

Capacitors:

2x 10uF Electrolytic Capacitor 10V
2x 470uF Electrolytic Capacitor 10V
4x 10nF Ceramic Capacitor 1000V (103)
8x 100nF Ceramic Capacitor 50V (104)
1x 1nF Multilayer Ceramic Capacitor 50V (102)
2x 22pF Ceramic Capacitor 50V (220)
1x 220pF Ceramic Capacitor 50V (221)

Diodes:

3x 1N4937 Fast Diode 600V
1x 1N4148
1x LED 3mm RED

Inductors:

1x 10mH Ferrite Dust Core Inductor
1x 100uH Axial Inductor

Transistors:

1x MPSA42 NPN Transistor
4x 2N3904 NPN Transistor

IC's:

1x PIC16F876A
2x TS555 CMOS

Other:

1x 16x2 LCD HD44780
1x 16.000 MHz Crystal
2x 8 Pin DIP IC Socket
1x 28 Pin DIP IC Socket
1x Active Buzzer 5V
4x Tact Switch Push Button
1x USB Type B PCB Socket
2x Terminal Block 2 Position
2x Jumpers Cup 2.54mm
2x 6 Pin Female Header
1x 2 Pin Female Header
2x 6 Pin Male Header
2x 2 Pin Male Header
1x 8 Pin Male Header Right Angle
4x M3 Standoff
4x M3 Screw
1x M2.5 Standoff 11mm
2x M2.5 Screw