

MightyOhm Engineering				
Geiger Counter				
Bill of Materials				
J. Keyzer				
Item	Qty	Refdes	Value	Description
1	1	PCB	geiger_20110718	Printed Circuit Board (Yel/Blk)
2	1	U1	ATTINY2313V	Atmel ATtiny2313V Microcontroller
3	1	U2	TLC555CP	CMOS 555 Timer
4	1	X1	8MHz	Resonators 8MHz 5V
5	1	LS1		Audio Indicators & Alerts Round 17mmx8mm 4kHz Vin=3V
6	1	Q1	FJN3303F	Bipolar Power Hi Voltage Fast Swth NPN Power Transistor
7	2	Q2, Q3	2N3904	Bipolar Small Signal NPN Transistor General Purpose
8	1	D1	1N4937	Rectifiers 1.0a Rectifier Fast Recovery
9	1	D2	1N914	Diodes (General Purpose, Power, Switching) 100 Volt 300mA T/R
10	1	LED1	RED	Standard LED - Through Hole
11	1	R8	15	Carbon Film Resistors - Through Hole 5%
12	1	R6	330	Carbon Film Resistors - Through Hole 5%
13	1	R11	100	Carbon Film Resistors - Through Hole 5%
14	1	R5	1K	Carbon Film Resistors - Through Hole 5%
15	2	R3,R10	10K	Carbon Film Resistors - Through Hole 5%
16	1	R4	22K	Carbon Film Resistors - Through Hole 5%
16	2	R1,R7	100k	Carbon Film Resistors - Through Hole 5%
17	1	R9	220K	Carbon Film Resistors - Through Hole 5%
18	1	R2	4.7M	Carbon Film Resistors - Through Hole 5%
19	1	VR1	100	Trimmer Resistors - Single Turn 3/8 10ohms 10% 0.5Watts Square
20	1	L1	10mH	Power Inductors 10000UH RADIAL COIL CHOKE
21	1	C2	220pF	Ceramic Disc Capacitors .2LS 220PF 1KVDC 10%
22	1	C3	1nF	Multilayer Ceramic Capacitors (MLCC) - Leaded 1000pF 50volts 5% C0G 5mm LS
23	1	C1	0.01uF	Ceramic Disc Capacitors .375LS .01UF 1KV 20%
24	1	C4	0.1uF	Multilayer Ceramic Capacitors (MLCC) - Leaded 0.1uF 50volts 10% X7R 2.5mm LS
25	1	C5	100uF	Aluminum Electrolytic Capacitors - Leaded 35volts 100uF
26	1	S1	POWER	Slide Switches SPDT On-On
27	1	S2		SWITCH TACT 6MM SPST H=5MM
28	2	J1, J2 (J3, J4)		Fuse Holder, 3AG, PCB Mount (install 2/4)
29	1	B1	2xAAA	2xAAA Holder PCB Mount
30	1	J5	ICSP	Dual Row Male Header – 2x3
31	1	J6	PULSE	Single Row Male Header – 1x3
32	1	J7	SERIAL	Single Row Male Header – 1x6
33	1	N/A	N/A	IC & Component Sockets 8P DUAL WIPE DIPSKT
34	1	N/A	N/A	IC & Component Sockets 20P DUAL WIPE DIPSKT
35	2	TP1,TP2	HV+, GM_PULSE	Test Point (optional 1x1 header pin)
<b>Hardware</b>				

BOM

36	1	N/A	N/A	Zinc-Pltd STL Pan Head Phillips Machine Screw 4-40 Thread, 1/4" Length
37	1	N/A	N/A	Zinc-Plated Steel Machine Screw Hex Nut 4-40 Thread Size, 1/4" Width, 3/32" Height

changelog

<b>Revisions to BOM:</b>		
<b>Date</b>	<b>Author</b>	<b>Change</b>
08/05/11	JSK	Created