Source	open-radiation-detector/Detector_PCB_0.9/open_rad_detector.sch										
Kicad Rev	Eeschema 4.0.6-e0-6349~52~ubuntu16.10.1										
Generated Date	mar 17 oct 2017 10:54:59 CEST										
Title	Open Radiation Detector										
Revision	0.9										
	Author: Carlos Garcia Saura										
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	https://creativecommons.org/licenses/by-sa/4.0/										
	https://hackaday.io/project/27508-open-radiation-detector/				Total cost:	15	€	(buying a single component of each)			

Reference	Value	Library	Library Ref	Manufacturer	Product ID	Provider	€/pc (17 oct 2017)				
J1	Outer_Shield	device	RF_Shield_One_Piece	Laird	BMI-S-107	http://www.mo	3.9				
BZ1	Buzzer	device	Buzzer	Buzzer is not working yet. Please wait for the next version.			1	(link pending)			
C1	10u	device	C	Any 1206 10uF capacitor			0.1	(link pending)			
C2	100n	device	C	Any 0805 100nF capacitor			0.1	(link pending)			
C3	10u	device	C	Any 1206 10uF capacitor			0.1	(link pending)			
C4	100n	device	C	Any 0805 100nF capacitor			0.1	(link pending)			
D1	LED	device	LED	Any 1206 LED diode			0.1	(link pending)			
D2	D	device	D	Any 1206 diode rectifier			0.1	(link pending)			
J2	Electrode	conn	CONN_01X01	AVX	709176001511006	http://www.mo	0.179	Another option:	Mill-Max	http://www	1944-0-00-15-00-00-03-0
J3	Batt	conn	CONN_01X02	Keystone Electronics	82	http://www.mo	0.76	Need to buy 2 (two)			
J4	CONN_01X06	conn	CONN_01X06	Any 6 pin strip			0.1	(link pending)			
Q1	FMMT734	transistors	BC858	Diodes Incorporated	FMMT734	http://www.mo	0.476				
Q2	FMMT734	transistors	BC858	Diodes Incorporated	FMMT735	http://www.mo	1.476				
R1	10M	device	R	Any 1206 10Mohm resistor			0.1	(link pending)			
R2	10M	device	R	Any 1206 10Mohm resistor			0.1	(link pending)			
R3	R_G	device	R	Any 0805 1k resistor			0.1	(link pending)			
R4	R_LED	device	R	Any 0805 suitable for LED D1 (~300 ohms? Need to test)			0.1	(link pending)			
R5	10M	device	R	Any 1206 10Mohm resistor			0.1	(link pending)			
RV1	R_F	device	POT	Piher	PT10MV10-104A2020	http://www.mo	0.518				
RV1 knob	Plastic knob for RV1 potentiometer			Piher	XBOPL5034CR	http://www.mo	0.227	Hand mounted on potentiometer			
SW1	POWER	switches	SW_SPDT	C&K Components	JS202011SCQN	http://www.mo	0.374				
SW2	BUZZER	switches	SW_SPDT	C&K Components	JS202011SCQN	http://www.mo	0.374				
U1	LD1117S50TR	regul	LD1117S50TR	STMicroelectronics	LD1117S50TR	http://www.mo	0.383				
U2	MCP6N11	MCP6N11	MCP6N11	Microchip Technology	MCP6N11-010E/SN	http://www.mo	1.26				
	Battery			Any A23 battery (12V), widely available in many stores			2				