

open_rad_detector

Source	open-radiation-detector/Detector_PCB_0.9/open_rad_detector.sch												
Title	Open Radiation Detector												
Revision	0,9												
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	https://creativecommons.org/licenses/by-sa/4.0/												
	https://hackaday.io/project/27508-open-radiation-detector/							Total cost:	14	€	(bulk would be cheaper)		
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	Vishay	VJ1206V106ZXQTW1B	http://www.mo	0,085	(any other compatible is OK)					
C2	100n	device	C	Vishay	VJ0805Y104JXXAC	http://www.mo	0,085	(any other compatible is OK)					
C3	10u	device	C	Vishay	VJ1206V106ZXQTW1B	http://www.mo	0,085	(any other compatible is OK)					
C4	100n	device	C	Vishay	VJ0805Y104JXXAC	http://www.mo	0,085	(any other compatible is OK)					
D1	LED	device	LED	Lite-On	LTST-C150GKT	https://www.m	0,315	(any other compatible is OK)					
D2	D	device	D	AVX	SD1206S040S0R5	http://www.mo	0,349	(any other compatible is OK)					
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 connector of your choice					
Q1	FMMT734	transistors	BC858	Diodes Incorporated	FMMT734	http://www.mo	0,476						
Q2	FMMT734	transistors	BC858	Diodes Incorporated	FMMT735	http://www.mo	0,476						
R1	10M	device	R	Vishay	CRCW120610M0FKEA	http://www.mo	0,085	(any other compatible is OK)					
R2	10M	device	R	Vishay	CRCW120610M0FKEA	http://www.mo	0,085	(any other compatible is OK)					
R3	R_G	device	R	Vishay	CRCW08051K00FKEA	http://www.mo	0,085	(any other compatible is OK)					
R4	R_LED	device	R	Vishay	CRCW0805330RFKEB	https://www.m	0,085	(any other compatible is OK)					
R5	10M	device	R	Vishay	CRCW120610M0FKEA	http://www.mo	0,085	(any other compatible is OK)					
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						