

open_rad_detector_BOM

Source:	open-radiation-detector/Detector_PCB_1.0/open_rad_detector.sch												
Component Count	34												
Ref	Qty	Value	Cmp name	Description	Manufacturer	Product ID	Provider	€/pc (17 oct 2017)					
BZ1,	1	Buzzer	Buzzer	Buzzer, polar									
C1, C3, C5,	3	10u	C	Unpolarized capacitor	Vishay	VJ1206V106ZXQTW1BC	http://www.mouser.com	0,085	(any other compatible is OK)				
C2, C4,	2	100n	C	Unpolarized capacitor	Vishay	VJ0805Y104JXXAC	http://www.mouser.com	0,085	(any other compatible is OK)				
D2,	1	D	D	Diode	AVX	SD1206S040S0R5	http://www.mouser.com	0,349	(any other compatible is OK)				
D3, D5, D8, D9,	9	LED	LED	LED generic	Lite-On	LTST-C150GKT	https://www.mouser.com	0,315	(any other compatible is OK)				
IC1,	1	LM3914V	LM3914V										
J1,	1	Outer_Shield	RF_Shield_0	One-Piece EMI RF Shield	Laird	BMI-S-107	http://www.mouser.com	3,9					
J2,	1	Electrode	Conn_01x01	Generic connector, single row	AVX	709176001511006	http://www.mouser.com	0,179	Another option	Mill-Max	http://www.mouser.com	1944-0-00-15-00-00-03-0	
J3,	1	Batt	Conn_01x02	Generic connector, single row									
L1,	1	33u	L	Inductor									
Q1, Q2,	2	FMMT734	BC858	45V Vce, 0.8A Ic, PNP	Diodes Incorporated	FMMT734	http://www.mouser.com	0,476					
R1, R2,	2	10M	R	Resistor	Vishay	CRCW120610M0FKEA	http://www.mouser.com	0,085	(any other compatible is OK)				
R3,	1	R_G	R	Resistor	Vishay	CRCW08051K00FKEA	http://www.mouser.com	0,085	(any other compatible is OK)				
R4,	1	LMR1	R	Resistor									
R5,	1	Rtune	R	Resistor	Not placed (use to tune amplifier offset if needed)								
R6,	1	LMR2	R	Resistor									
RV1,	1	R_F	POT	Potentiometer	Piher	PT10MV10-104A2020	http://www.mouser.com	0,518					
SW1,	1	POWER	SW_SPDT	Switch, single pole double throw	C&K Components	JS202011SCQN	http://www.mouser.com	0,374					
SW2,	1	BUZZER	SW_SPDT	Switch, single pole double throw	C&K Components	JS202011SCQN	http://www.mouser.com	0,374					
U1,	1	LD1117S50	LD1117S50TR	1A Low Dropout regulator	STMicroelectronics	LD1117S50TR	http://www.mouser.com	0,383					
U2,	1	MCP6N11	MCP6N11	Instrumentation Amplifier	Microchip Technology	MCP6N11-010E/SN	http://www.mouser.com	1,26					