



Detector Board Rev-B Partlist

Part	Value	Package	Description		
-Resistors					
R1	N/A	1206	(Generic Thick Film resistor)		
R2	N/A	1206	(Generic Thick Film resistor)		
R3	47	1206	(Generic Thick Film resistor)		
R4	100 1%	1206	(Generic Thick Film resistor)		
R5	100 1%	1206	(Generic Thick Film resistor)		
R6	470	1206	(Generic Thick Film resistor)		
R7	1K2	1206	(Generic Thick Film resistor)		
R8	1K58 1%	1206	(Generic Thick Film resistor)		
R9	1K58 1%	1206	(Generic Thick Film resistor)		
R10	2K2	1206	(Generic Thick Film resistor)		
R11	2K2	1206	(Generic Thick Film resistor)		
R12	4K7	1206	(Generic Thick Film resistor)		
R13	4K7	1206	(Generic Thick Film resistor)		
R14	10K	1206	(Generic Thick Film resistor)		
R15	10K	1206	(Generic Thick Film resistor)		
R16	10K	1206	(Generic Thick Film resistor)		
R17	10K	1206	(Generic Thick Film resistor)		
R18	10K	1206	(Generic Thick Film resistor)		
R19	10K	1206	(Generic Thick Film resistor)		
R20	10K	1206	(Generic Thick Film resistor)		
R21	10K	1206	(Generic Thick Film resistor)		
R22	10K	1206	(Generic Thick Film resistor)		
R23	10K	1206	(Generic Thick Film resistor)		
R24	10K	1206	(Generic Thick Film resistor)		
R25	10K	1206	(Generic Thick Film resistor)		
R26	10K	1206	(Generic Thick Film resistor)		
R27	10K	1206	(Generic Thick Film resistor)		
R28	10K	1206	(Generic Thick Film resistor)		
R29	10K	1206	(Generic Thick Film resistor)		
R30	18K2 1%	1206	(Generic Thick Film resistor)		
R31	18K2 1%	1206	(Generic Thick Film resistor)		
-Inductors					
L1	4u7	1210	(Generic SMD inductor)		
L2	47u	1210	(Generic SMD inductor)		
L3	2.3u	T50-10	(Micrometals T50-10, 25 turns, 0.5mm enameled)		
L4	2.3u	T50-10	(Micrometals T50-10, 25 turns, 0.5mm enameled)		
L5	1.5u	1210	(Generic SMD inductor)		
L6	1.5u	1210	(Generic SMD inductor)		
L7	1.5u	1210	(Generic SMD inductor)		
L8	1.5u	1210	(Generic SMD inductor)		

L9 L10	1.5u 1.5u	1210 1210	(Generic SMD inductor) (Generic SMD inductor)			
-Capacitors						
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C27 C28 C29 C30 C31	N/A N/A N/A N/A 3p3 3p3 10p 10p 10p 15p 15p 22p 22p 27p 39p 39p 39p 68p 82p 150p 150p 470p 470p 470p 3n3 3n3 22n 22n 22n 22n 22n 22n 22n	1206 1206 1206 1206 1206 1206 1206 5.5x7.0mm, 2-pin 5.5x7.0mm, 2-pin 5.5x7.0mm, 2-pin 1206 1206 1206 1206 1206 1206 1206 1206	(Generic COG,NPO MLCC) (Philips film trimmer, brown yellow) (Generic COG,NPO MLCC) (Generic Polyester film, MKT)			
C32 C33	100n 100n	1206 1206	(Generic X7R MLCC) (Generic X7R MLCC)			
C34	100n	1206	(Generic X7R MLCC)			
C35	100n	1206	(Generic X7R MLCC)			
C36	100n	1206	(Generic X7R MLCC)			
C37	100n	1206	(Generic X7R MLCC)			
C38	100n	1206	(Generic X7R MLCC)			
C39	100n	1206	(Generic X7R MLCC)			
C40	100n	1206	(Generic X7R MLCC)			
C41	100n	1206	(Generic X7R MLCC)			
C42	100n	1206	(Generic X7R MLCC)			
C43	100n	1206	(Generic X7R MLCC)			

C44	100n	1206	(Generic X7R MLCC)	
C45	100n	1206	(Generic X7R MLCC)	
C46	100n	1206	(Generic X7R MLCC)	
C47	100n	1206	(Generic X7R MLCC)	
C48	100n	1206	(Generic X7R MLCC)	
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C49	100n	1206	(Generic X7R MLCC)	
C50	100n	1206	(Generic X7R MLCC)	
C51	100n	1206	(Generic X7R MLCC)	
C52	100n	1206	(Generic X7R MLCC)	
C53	100n	1206	(Generic X7R MLCC)	
C54	100n	1206	(Generic X7R MLCC)	
C55	100n	1206	(Generic X7R MLCC)	
C56	100n	1206	(Generic X7R MLCC)	
C57	100n	1206	(Generic X7R MLCC)	
C58	100n	1206	(Generic X7R MLCC)	
C59	100n	1206	(Generic X7R MLCC)	
C60	100n	1206	(Generic X7R MLCC)	
C61			(Generic X7R MLCC)	
	100n	1206	· · · · · · · · · · · · · · · · · · ·	
C62	100n	1206	(Generic X7R MLCC)	
C63	100n	1206	(Generic X7R MLCC)	
C64	100n	1206	(Generic X7R MLCC)	
C65	100n	1206	(Generic X7R MLCC)	
C66	100n	1206	(Generic X7R MLCC)	
C67	100n	1206	(Generic X7R MLCC)	
C68	1u	1206	(Generic X7R MLCC)	
C69	1u	1206	(Generic X7R MLCC)	
C70	10u	SMCB	(Generic Tantalium)	
C71	10u	SMCB	(Generic Tantalium)	
C72	10u	SMCB	(Generic Tantalium)	
C73	10u	SMCB	(Generic Tantalium)	
C74	10u	SMCB	(Generic Tantalium)	
C75	33u	SMCD	(Generic Tantalium)	
C76	33u	SMCD	(Generic Tantalium)	
	D 1			
-Ferrite Beads				
FB1	FB43	6 turns	(6 turns 0.3mm enameled copper)	
FB2	FB43	6 turns 2 turns	(6 turns 0.3mm enameled copper) (2 turns 0.8mm enameled copper)	
FB3	BN73-2402	2 turns	(2 turns 0.8mm enameled copper)	
FB4	BN73-2402	2 turns	(2 turns 0.8mm enameled copper)	
-Transformers				
	- <del></del>			
T1	1:4	BN43-2402	(Binocular mix 43 bead, 7 bifilar turns, 0.5mm enameled)	
			(or MCL ADTT4-1, T4-1 etc)	
-Integrated Circuits				
incegrated circuits				

IC11 IC12 IC13 IC14	FSA3157P6X FSA3157P6X PCF8574AT	TO263 SC70-6 SC70-6 SC70-6 SC70-6 SOIC-16W	(Analog Devices Inc, Instrumentation amplifier) (Analog Devices Inc, Instrumentation amplifier) (Fairchild Semiconductor, Video Switch 2x4:1) (Texas Instruments, Dual D-type Flip Flop) (National Semiconductor, Audio Opamp) (National Semiconductor, Audio Opamp) (Texas Instruments, 5V regulator) (National Semiconductor, 12V LDO regulator) (National Semiconductor, -12V LDO regulator) (Fairchild Semiconductor, SPDT bus-switch) (NXP Semiconductors, I2C 8-bit IO-expander)		
-Transisto	rs				
Q7 Q8			(ON-Semiconductor N-JFET) (Fairchild Semiconductor, NPN transistor)		
-Crystals					
Q2 Q3 Q4 Q5	8.997M 8.997M 8.997M 8.997M 8.997M	HC-49	(QT Quarztechnik GmbH, specification 20100J1M1045)		
-Connectors					
J2 J3 J4 J5 I2C-HEADER X1	BFO IN Q OUT I OUT IF IN pin-header I2C-bus MSTBA MSTBA	SMA 2X02 ML10L MSTBA 2.5/3-G-5.08	(Card edge SMA female connector) (2x2 pin header) (10 pin male flatcable connector) (conn header rt ang 3pos 5.08mm, PhoenixContact 1757255) (conn term block plug 3pos 5.08mm, PhoenixContact 1757022)		







