LDR Theremin parts list

Part	Supplier	Part no		URL	Single unit cost	Qty 100+	Note	Alternative	Original manufacturer and part number
	Battery Holder		Note						
Recommended 9V PCB Mount battery holder	Altronics	S5048		https://www.altronics.com.au/p/s5048-9v- battery-holder-pcb-mount/	1.15	\$0.95		holder is BH-9VPC, there are many this in Australia. Also seen it at arts	
Notes 1)	PCB Mount 9V battery holde	rs are available from other sup	pliers with different pin spacing	, the board can accommodate pins spacing from 12 to 14.5 mm					
2)	The holes for the PCB mount a	are slotted to accomodate diffe	erent pin spacings - the only hol	der i have tried is the Altronics one with a spacing of 12.5mm					
3)	You can also use a 9V battery	holder and stick it on slightly overlapping the back of the ON/OFF							
	Use 2mm double sided tape to	hold the battery holder on to	the board regardless of the type	e used, to take the strain off the pins when the board is held and w					
555 Timer	Element 14			https://au.element14.com/texas- instruments/ne555p/timer-single-precision- dip8-0/dp/3006909?st=ne555	,42	\$0.32			
8 Pin IC Socket	Element 14			https://au.element14.com/amphenol-icc-fci/ dilb8p-223tlf/dip- socket-8pos-2row-2-54mm-th/dp/2668407	\$0.19	\$0.14		order in qty of 100 only	
Speaker	Core Electronics	COM-11089	15 mm spacing on the board to accommodate this one	https://core-electronics.com.au/speaker- pcb-mount.html	3.15	2.93		This one sounds better than the other 2	
	Element 14	Cheaper Speaker Alternative		https://au.element14.com/multicomp/ mcabs-201-rc/speaker-8-ohm-0-15w-pcb- pins/dp/2361100		0		\$3.17 each or \$1.84 per 50+	PCB Mount
	Core Electronics			https://core-electronics.com.au/thin- speaker-0-5w.html				\$1.50 each or \$1.39 per 50+	Speaker with wires - needs to be glued or cable tied in.
	Can also use a speaker with leads, (max 40mm diameter) as there are holes in the board for speakers with Leads, and you can use 2.5mm - 200mm length cable ties through the 4 holes to hold it in, the cable ties fit under the battery holder on the rear.								
Resistors			Cost						
R1	100 ohm 5% 1/4 watt		Need 1 of these	https://au.element14.com/multicomp/ mcf-0-25w-100r/res-100r-5-250mw-axial- carbon/dp/9339043?st=100%20ohm	0.02	0.02			
R2	4.7K ohm 5% ¼ W		Need 1 of these	https://au.element14.com/multicomp/ mcf-0-25w-4k7/res-4k7-5-250mw-axial- carbon-film/dp/9339540	0.03	0.03			
R3	1k ohm 5% 1/4W		Need 1 of these	https://au.element14.com/multicomp/ mccfr0w4 0102a50/resistance-1kohm/dp/ 1652634?st=1000%20ohm	0.02	0.02			

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Note	Recommend using ¼ carbon film as it is easier to see the difference in the colour bands than on the metal film, except for R1 - should be ½ W								
Capacitor					30 cents each				
C1 - 10uf	Element 14	ECA-1CM100		https://au.element14.com/multicomp/ mcrh25v106m5x11/cap-10-f-25v-20/dp/ 1902913?st=10uf	0.07	0.05			
C2 - 100nf	Element 14			https://au.element14.com/multicomp/ mcfyu6104z6/cap-0-1-f-50v-y5v/dp/ 9411887?st=100nf	\$0.41	\$0.15			
LDR	Element 14	NSL 19M51		https://au.element14.com/advanced- photonix/nsl-19m51/light-dependent- resistor-550nm/dp/3168335	\$1.60	\$0.82			
Switches									
On/Off switch	Element 14	B3F-4000		https://au.element14.com/search? st=b3f-4000	\$0.84	\$0.84			
Battery	Officeworks	20 pack	Cheapest I could find	https://www.officeworks.com.au/shop/ officeworks/p/varta-high-energy-9v- alkaline-batteries-12-pack-va49224111	\$4.93	\$1.67			
Board					\$2.00	\$1.66		Price varies greatly on quantity ordered and Board colour.	
					\$14.41	\$9.60			
Double sided tape	Have a look at Repco, or Superchaep Auto			19mm wide, 2mm thick (may have to use 2 - only need a 10mm long section so 1 roll goes					