

555 Organ parts list - prices valid June 2020

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	Part number on the holder is BH-9VPC, there are many different supplier of this in Australia. Also seen it at Jaycar and Radio parts		
Notes 1)	PCB Mount 9V battery holders are available from other suppliers with different pin spacing, the board can accommodate pins spacing from 12 to 14.5 mm								
2)	The holes for the PCB mount are slotted to accomodate different pin spacings - the only holder i have tried is the Altronics one with a spacing of 12.5mm								
3)	You can also use a 9V battery holder with leads, just use the same holes as the PCB mount 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 used, to take the strain off the pins when the board is held and w								
555 Timer	Element 14	NE555P		https://au.element14.com/texas-instruments/ne555p/ic-precision-timer-500khz-16v/dp/2148597?CMP=i-55c5-00001621	\$0.80	\$0.44			
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	\$0.16		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	3.37	3.1		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		\$3.3 each or \$1.88 per 50+	PCB Mount
	Core Electronics			https://core-electronics.com.au/thin-speaker-0-5w.html				\$2.29 each or \$2.1 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, ¼ W, only reason its the blue metal film is to help differentiate from other resistors	Need 1 of these	https://au.element14.com/multicomp/mf25-100r/res-100r-1-250mw-axial-metal-film/dp/9341099	0.04	0.04		Do not use any resistor larger than the ¼ W size (body is about 6.8mm otherwise it will not	
R2		4.7K ¼ w	Need 1 of these	https://au.element14.com/multicomp/mcf-0-25w-4k7/res-4k7-5-250mw-axial-carbon-film/dp/9339540	0.02	0.02			

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R3		820 ohms ¼ w	Need 1 of these	https://au.element14.com/multicomp/mcf-0-25w-820r/res-820r-5-250mw-axial-carbon/dp/9339710	0.02	0.018		physically fit	
R4-7		1k ohms ¼ w	Need 4 of these	https://au.element14.com/multicomp-pro/mcf-0-25w-1k/res-1k-5-250mw-axial-carbon-film/dp/9339051	0.03	0.03			
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	0.08	0.07			
C2 - 100nf	Element 14			https://au.element14.com/multicomp/mcfyu6104z6/cap-0-1-f-50v-y5v/dp/9411887?st=100nf	\$0.41	\$0.15		Cheaper to buy 100 than 50	
Switches									
On/Off switch	Element 14	B3F-4000		https://au.element14.com/search?st=b3f-4000	\$0.84	\$0.84			
S1-5	Element 14	B3F-1000	Need 5 of these	https://au.element14.com/search?st=b3f-1000	\$2.15	\$2.00		Total is for 5 switches	
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			
Bag for Components	EBay			search for 100 x silver/clear tough mylar stand up bags zip lock reseal ziplock bag 13x18cm	\$0.18	\$0.18			
Board	from JLCPCB				\$2.00	\$1.81		Price varies greatly on quantity ordered and Board colour.	
					\$16.21	\$11.47			
Double sided tape	Have a look at Repco, or Superchaep Auto or the following			http://www.handyhardware.com.au/double-sided-adhesive-tapes/ T1A is what I use, 2M long (will do 200 Kits), 24mm wide and 2mm thick \$8-10 for a role.	19-24mm wide, 2mm thick (may have to use 2 - 1mm layers). But you only need a 10mm long section so 1 roll goes a long way				