

QTY	VALUE	PARTS	DESCRIPTION	MANUFACTURER PART NUMBER	VENDOR PART NUMBER	UNIT PRICE (IN 100+)	EXT PRICE	MEASUREMENT	SOURCE
RESISTORS (THT)									
1	5.1kΩ	R1	1/2W resistor, metal film 700V	MF12CC5101F	SS1KCAT-ND	0.3011	0.3011	0.139" Dia x 0.354" L (3.50mm x 9.00mm)	<a href="https://www.digikey.com/en/products/detail/bale-electronics-inc/NE1-2CC5101F/2180398">https://www.digikey.com/en/products/detail/bale-electronics-inc/NE1-2CC5101F/2180398</a>
3	1kΩ	R2, R6, R9	1/4W resistor, carbon film	CF14JT1K0K0	CF14JT1K0K0-ND	0.0215	0.0645	0.091" Dia x 0.236" L (2.30mm x 6.00mm)	<a href="https://www.digikey.com/en/products/detail/CF14JT1K0K0/CF14JT1K0K0-ND/1830324">https://www.digikey.com/en/products/detail/CF14JT1K0K0/CF14JT1K0K0-ND/1830324</a>
1	1kΩ	R3	1/4W resistor, carbon film	CF14JT1K00	CF14JT1K00CT-ND	0.0215	0.0215	0.091" Dia x 0.236" L (2.30mm x 6.00mm)	<a href="https://www.digikey.com/en/products/detail/CF14JT1K00/CF14JT1K00CT-ND/1830350">https://www.digikey.com/en/products/detail/CF14JT1K00/CF14JT1K00CT-ND/1830350</a>
1	75Ω	R4	1/4W resistor, carbon film	CF14JT75R0	CF14JT75R0CT-ND	0.0215	0.0215	0.091" Dia x 0.236" L (2.30mm x 6.00mm)	<a href="https://www.digikey.com/en/products/detail/CF14JT75R0/CF14JT75R0CT-ND/1830324">https://www.digikey.com/en/products/detail/CF14JT75R0/CF14JT75R0CT-ND/1830324</a>
1	6.2kΩ	R5	1/4W resistor, carbon film	CF14JT6K20	CF14JT6K20CT-ND	0.0215	0.0215	0.091" Dia x 0.236" L (2.30mm x 6.00mm)	<a href="https://www.digikey.com/en/products/detail/CF14JT6K20/CF14JT6K20CT-ND/1830368">https://www.digikey.com/en/products/detail/CF14JT6K20/CF14JT6K20CT-ND/1830368</a>
1	4.7kΩ	R7	1/4W resistor, metal film, 1% (not 5%)	RNV14FAL4M70	RNV14FAL4M70CT-ND	0.0853	0.083	0.083" Dia x 0.236" L (2.40mm x 6.00mm)	<a href="https://www.digikey.com/en/products/detail/RNV14FAL4M70/RNV14FAL4M70CT-ND/20265263">https://www.digikey.com/en/products/detail/RNV14FAL4M70/RNV14FAL4M70CT-ND/20265263</a>
1	6.8MΩ	R8	0.6W resistor, carbon film, 1% (not 5%)	MB8207C6804CFCT00	BC386CT-ND	0.076	0.076	0.091" Dia x 0.236" L (2.30mm x 6.00mm)	<a href="https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/MB8207C6804CFCT00/563554">https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/MB8207C6804CFCT00/563554</a>
2	4.7kΩ	R10, R14	1/4W resistor, carbon film	CF14JT4K70	CF14JT4K70CT-ND	0.0215	0.043	0.091" Dia x 0.236" L (2.30mm x 6.00mm)	<a href="https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/CF14JT4K70/1714128">https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/CF14JT4K70/1714128</a>
1	10MΩ	R11	1/4W resistor, metal film 700V	VR2500001005JR500	56-VR2500001005JR500CT-ND	0.1181	0.1081	0.086" Dia x 0.256" L (2.50mm x 6.50mm)	<a href="https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/VR2500001005JR500/7350778">https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/VR2500001005JR500/7350778</a>
1	22kΩ	R12	1/4W resistor, carbon film	CF14JT22K0	CF14JT22K0CT-ND	0.0215	0.0215	0.091" Dia x 0.236" L (2.30mm x 6.00mm)	<a href="https://www.digikey.com/en/products/detail/CF14JT22K0/CF14JT22K0CT-ND/1830383">https://www.digikey.com/en/products/detail/CF14JT22K0/CF14JT22K0CT-ND/1830383</a>
1	5.1MΩ	R13	1/4W resistor, metal film 700V	VR25000005104JA100	BC4800CT-ND	0.0978	0.0978	0.086" Dia x 0.256" L (2.50mm x 6.50mm)	<a href="https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/VR25000005104JA100/7350798">https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/VR25000005104JA100/7350798</a>
1	20kΩ	RV1	Potentiometer, 12W 1.0 Turn	3362P-1-203LF	3362P-203LF-ND	0.7575	0.7575	0.275" x 0.260" Face (6.99mm x 6.60mm)	<a href="https://www.digikey.com/en/products/detail/bourns-inc/3362P-1-203LF/1088417">https://www.digikey.com/en/products/detail/bourns-inc/3362P-1-203LF/1088417</a>
CAPACITORS (THT)									
2	10µF	C1, C3	MLCC in radial package with 0.1" lead spacing required	FG18XSR1E106MRT06	FG18XSR1E106MRT06CT-ND	0.2043	0.4086	0.157" L x 0.098" W (4.00mm x 2.50mm)	<a href="https://www.digikey.com/en/products/detail/fdb-corporation/FG18XSR1E106MRT06/784735">https://www.digikey.com/en/products/detail/fdb-corporation/FG18XSR1E106MRT06/784735</a>
1	47pF	C2	MLCC in radial package with 0.1" lead spacing required	SR152A470KAR	478-1364-ND	0.1315	0.1315	0.150" L x 0.100" W (3.81mm x 2.54mm)	<a href="https://www.digikey.com/en/products/detail/SR152A470KAR/478-1364-ND/936806">https://www.digikey.com/en/products/detail/SR152A470KAR/478-1364-ND/936806</a>
1	10µF ± 10000pF	C4	Ceramic in radial package 100V/0.2" lead spacing required	D103M2625UH8UJR	BC5213CT-ND	0.062	0.062	0.295" Dia (7.50mm)	<a href="https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/D103M2625UH8UJR/283006">https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/D103M2625UH8UJR/283006</a>
1	220µ ± 0.22µF	C5	Ceramic in radial package with 0.2" lead spacing required	K22AK20X7R5UH5	BC267CT-ND	0.124	0.124	0.124" x 0.197" L x 0.126" W (6.50mm x 3.20mm)	<a href="https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/K22AK20X7R5UH5/2336787">https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/K22AK20X7R5UH5/2336787</a>
1	1µF	C6	Ceramic in radial package with 0.2" lead spacing required	FG28X7R1E105KRT00	445-18178-ND	0.0899	0.0899	0.157" L x 0.086" W (4.00mm x 2.50mm)	<a href="https://www.digikey.com/en/products/detail/fdb-corporation/FG28X7R1E105KRT00/7368783">https://www.digikey.com/en/products/detail/fdb-corporation/FG28X7R1E105KRT00/7368783</a>
1	15µF	C7	Ceramic in radial package with 0.19" lead spacing required	K153K10X7R5UH5	BC267CT-ND	0.0775	0.0775	0.142" L x 0.091" W (3.60mm x 2.30mm)	<a href="https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/K153K10X7R5UH5/2336780">https://www.digikey.com/en/products/detail/vishay-beyschlag-dialoric-bc-components/K153K10X7R5UH5/2336780</a>
1	4.7nF	C8	Ceramic in radial package with 0.2" lead spacing required (CHV)	S472M3625JUN63JR	1288PH-ND	0.1444	0.1444	0.384" Dia (10.00mm)	<a href="https://www.digikey.com/en/products/detail/S472M3625JUN63JR/1288PH-ND/2356824">https://www.digikey.com/en/products/detail/S472M3625JUN63JR/1288PH-ND/2356824</a>
INDUCTORS									
1	1mH	L1	Inductor, radial package	RLB0914-102KL	RLB0914-102KL-ND	0.26875	0.26875	0.343" Dia (8.70mm)	<a href="https://www.digikey.com/en/products/detail/bourns-inc/RLB0914-102KL/2352773?WT.z_header=search_gd&amp;w=N4yTCBdDaEaFDCaAGADANhQFwYB2YEAAXF8">https://www.digikey.com/en/products/detail/bourns-inc/RLB0914-102KL/2352773?WT.z_header=search_gd&amp;w=N4yTCBdDaEaFDCaAGADANhQFwYB2YEAAXF8</a>
DIODES									
1	LED	D1	Blue LED 3mm 3.3V	WP710A100BCD	754-1596-ND	0.151	0.151	2.90mm Dia	<a href="https://www.digikey.com/en/products/detail/WP710A100BCD/754-1596-ND/2769812">https://www.digikey.com/en/products/detail/WP710A100BCD/754-1596-ND/2769812</a>
1	BA159	D2	Fast switching diode, DO-41 package required	BA159-E354	BA159-E354GCT-ND	0.1171	0.1171	DO-204AL (DO-41)	<a href="https://www.digikey.com/en/products/detail/BA159-E354/BA159-E354GCT-ND/3711780">https://www.digikey.com/en/products/detail/BA159-E354/BA159-E354GCT-ND/3711780</a>
IC									
1	NJM78M05FA	U1	Linear Voltage Regulator 5V at 500mA	NJM78M05FA	2129-NJM78M05FA-ND	0.7862	0.7862	TO-220F	<a href="https://www.digikey.com/en/products/detail/texas-instruments-inc/NJM78M05FA/805792">https://www.digikey.com/en/products/detail/texas-instruments-inc/NJM78M05FA/805792</a>
1	LNC555	U2	LNC555 CMOS-based 555 timer	LNC555C2NCPB	LNC555C2NCPB-ND	1.10575	1.10575	4-pin (0.300", 7.62mm)	<a href="https://www.digikey.com/en/products/detail/texas-instruments/LNC555C2NCPB/32624">https://www.digikey.com/en/products/detail/texas-instruments/LNC555C2NCPB/32624</a>
2	5T0	U3, U4	N Channel MOSFET 60V 400MA TO92-3	5T01HN60SR-AP	497-15648-1-ND	0.3879	0.7758	TO-92-3	<a href="https://www.digikey.com/en/products/detail/texas-instruments/5T01HN60SR-AP/384988">https://www.digikey.com/en/products/detail/texas-instruments/5T01HN60SR-AP/384988</a>
1	TL5001	U5	Power converter control chip	TL5001AP	296-10033-5-ND	2.9365	2.9365	8-DIP (0.300", 7.62mm)	<a href="https://www.digikey.com/en/products/detail/texas-instruments/TL5001AP/380445">https://www.digikey.com/en/products/detail/texas-instruments/TL5001AP/380445</a>
1	2N3904	Q1	NPN Transistor, TO-92 package	2N3904BU	2N3904BU-ND	0.1169	0.1169	TO-226-3, TO-92-3 (TO-226AA)	<a href="https://www.digikey.com/en/products/detail/2N3904BU/2N3904BU-ND/14113">https://www.digikey.com/en/products/detail/2N3904BU/2N3904BU-ND/14113</a>
MISC									
1	SBM-20		Geiger Tube	SBM-20	SBM-20	13	13	Max Len = 108 / 101 Eff Length = 91.0 / 83.5 (mm)	<a href="https://www.youtube.com/watch?v=341-sbm-20-hlm">https://www.youtube.com/watch?v=341-sbm-20-hlm</a>
2	DIP6		DIP SOCKET 6 pos	ED004D	ED0044-5-ND	0.16283	0.32566	DIP-6 0.3" (7.62mm) Row Spacing	<a href="https://www.digikey.com/en/products/detail/ED004D/ED0044-5-ND/147584">https://www.digikey.com/en/products/detail/ED004D/ED0044-5-ND/147584</a>
2	CLIPS		Fuse clips to hold SBM-20	3530	36-3530-ND	0.2635	0.527	Fuse Size: 0.25" Dia (6.35mm)	<a href="https://www.digikey.com/en/products/detail/texas-instruments/3530/316921">https://www.digikey.com/en/products/detail/texas-instruments/3530/316921</a>
1	BOARD		MIT-NSE Geiger Counter Board	REV9		1.1677	1.1677	<BOARD DIMENSIONS>	<a href="https://github.com/">https://github.com/</a>
1	CASE		Serpac enclosure, black, clear top	052C.BK	052C.BK	7.29	7.29	5.62 x 3.25 x 1.4 in	<a href="https://www.serpac.com/v5x-enclosure.html#93c2508162c1162bf008177c968182c263">https://www.serpac.com/v5x-enclosure.html#93c2508162c1162bf008177c968182c263</a>
1	SWITCH		SPST Circular Switch	SW-R2-1A-F-1-5	2057-SW-R2-1A-F-1-5-ND	0.4232	0.4232	Circular - 20.00mm Dia	<a href="https://www.digikey.com/en/products/detail/adam-tech/SW-R2-1A-F-1-5/15284451">https://www.digikey.com/en/products/detail/adam-tech/SW-R2-1A-F-1-5/15284451</a>
1	HOLD		9V Battery holder	BA9VPC	BA9VPC-ND	1.7901	1.7901	Height Above Board 0.843" (21.41mm)	<a href="https://www.digikey.com/en/products/detail/mpd-memory-protection-devices/BA9VPC/243928">https://www.digikey.com/en/products/detail/mpd-memory-protection-devices/BA9VPC/243928</a>
1	BATT		Energizer Industrial 9V	EN22	EN22	1.431	1.431	4.6x4.6mm	<a href="https://ia.co.uk/ASX503">https://ia.co.uk/ASX503</a>
2	SPADE		Spade Connectors	19708403	WM14-275CT-ND	0.0836	0.1672	Length 0.512" (12.95mm), Width 0.187" (4.75mm)	<a href="https://www.digikey.com/en/products/detail/index/019708401/3163362">https://www.digikey.com/en/products/detail/index/019708401/3163362</a>
4	SCREW		#4-40x3/16" pan head thread-cutting screw	90087A105	90087A105	0.1018	0.4072	#4-40x3/16"	<a href="https://www.mcmaster.com/90087A105/">https://www.mcmaster.com/90087A105/</a>
2	CONN		Female To Female spade connection wires (4.8mm)	N/A	N/A	0.467	0.934	4.8mm spade, 11.82" Length	<a href="https://ia.co.uk/38a3u">https://ia.co.uk/38a3u</a>
1	AUDIO	J2	Audio Connection Jack (female) 3.5mm	54-00298	839-54-00298CT-ND	0.8888	0.8888	3.50mm (1.41", 1.8", Mini Plug) - Headphone	<a href="https://www.digikey.com/en/products/detail/tenability-international-corp/54-00298/1676528">https://www.digikey.com/en/products/detail/tenability-international-corp/54-00298/1676528</a>
OPTIONAL									
1	ESP32		ESP32-C3-DevKitC-02	ESP32-C3-DevKitC-02	356-ESP32C3DEVKITC02	8	8		<a href="https://www.mouser.com/ProductDetail/Espressif-Systems/ESP32-C3-DevKitC-02?qs=stQD1AaKZm%2F1O62ye4CMA%3D%3Dmgh%3F1aenitd=AlmBQwP0O20zChQrOp63KXwHJBD7VzA6BjAYV9D_xvW5E2396tHgC&amp;H">https://www.mouser.com/ProductDetail/Espressif-Systems/ESP32-C3-DevKitC-02?qs=stQD1AaKZm%2F1O62ye4CMA%3D%3Dmgh%3F1aenitd=AlmBQwP0O20zChQrOp63KXwHJBD7VzA6BjAYV9D_xvW5E2396tHgC&amp;H</a>
2	HEADER		15 POS Female pinheader	PPTC151LFBN-RC	S7013-ND	0.75075	1.5015	Pitch - Mating (0.100" 2.54mm)	<a href="https://www.digikey.com/en/products/detail/adams-connector-solutions/PPTC151LFBN-RC/815153">https://www.digikey.com/en/products/detail/adams-connector-solutions/PPTC151LFBN-RC/815153</a>
1	PWR	J1	9V Connection Power Jack (Female) 2.1x5.5mm	EJ508A	EJ508A-ND	1.0443	1.0443	2.1x5.5mm	<a href="https://www.digikey.com/en/products/detail/mpd-memory-protection-devices/EJ508A/2439547">https://www.digikey.com/en/products/detail/mpd-memory-protection-devices/EJ508A/2439547</a>
1	MA011		Alternate usable geiger tube	MA011J321	MA011J321	\$5-20 (depending on src)		88mm x 10mm	Alexpress, Amazon, Ebay
PACKAGING									
1	BOX		5 x 8 x 2-inch Literature Mailers			0.8014	0.8014	8" x 8" x 2"	<a href="https://ia.co.uk/504CDm/n">https://ia.co.uk/504CDm/n</a>
7	PINK BAG		Pink Anti-Static Seal Top Bag			0.083	0.581	2.9" x 3"	<a href="https://ia.co.uk/0bCMmG">https://ia.co.uk/0bCMmG</a>
27	BAG		Zipper Lock Reclosable Clear Disposable Plastic Bags			0.01299	0.35073	2" x 3" - 3" - MIL	<a href="https://ia.co.uk/0HtEINs">https://ia.co.uk/0HtEINs</a>
1	BUBBLE		Anti Static Bubble cushioning for SBM-20 and Board			0.17	0.17	1lb	<a href="https://ia.co.uk/0cyPSBv">https://ia.co.uk/0cyPSBv</a>
26	LABEL		Premium Label Supply White Sticker Square Labels - 1.5" x 1.5"			0.02	0.52	1.5"x1.5"	<a href="https://ia.co.uk/04uV4M">https://ia.co.uk/04uV4M</a>
1	BIG BAG		CPH - 100 Count 8" X 8" Zip Bags, Heavy-Duty 4 Mil Thick, Laser Cut Box Insert			0.13	0.13	8" x 8"	<a href="https://ia.co.uk/048676v">https://ia.co.uk/048676v</a>
1	INSERT		14 pages color			0.17	0.17	11" x 8.5"	<a href="https://ia.co.uk/04hPwCg">https://ia.co.uk/04hPwCg</a>
2	CHIP FOAM		Foam Squares to protect small integrated circuits			0.02	0.04	1" x 1"	<a href="https://ia.co.uk/0A7bJox">https://ia.co.uk/0A7bJox</a>
7	TAPE PIECES		3 inch			0.03	0.21	3"	<a href="https://ia.co.uk/08OLnJ">https://ia.co.uk/08OLnJ</a>
ALTERNATE SMD R and C									
RESISTORS (SMD)									
1	5.1kΩ	R1	5.1 kOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Au CROW12065K10FKEA	541-5.1K0FCT-ND		0.0316	1206 (3216 Metric)		<a href="https://www.digikey.com/en/products/detail/vishay-dale/CRCW12065K10FKEA/1176724">https://www.digikey.com/en/products/detail/vishay-dale/CRCW12065K10FKEA/1176724</a>
3	10kΩ	R2, R6, R9	10 kOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Au RMCF1206F10K0	RMCF1206F10K0CT-ND		0.013	1206 (3216 Metric)		<a href="https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/RMCF1206F10K0/1759668">https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/RMCF1206F10K0/1759668</a>
1	1kΩ	R3	RES 1K OHM 5% 1/4W 1206	RMCF1206J1K00	RMCF1206J1K00CT-ND	0.01	1206 (3216 Metric)		<a href="https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/rmcf1206j1k00/1757526">https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/rmcf1206j1k00/1757526</a>
1	75Ω	R4	RES 75 OHM 5% 1/4W 1206	RMCF1206J75R0	RMCF1206J75R0CT-ND	0.01	1206 (3216 Metric)		<a href="https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/rmcf1206j75r0/1753386">https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/rmcf1206j75r0/1753386</a>
1	6.2kΩ	R5	6.2 kOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Au RMCF1206F76K20	RMCF1206F76K20CT-ND		0.013	1206 (3216 Metric)		<a href="https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/RMCF1206F76K20/1759189">https://www.digikey.com/en/products/detail/blackpoodle-electronics-inc/RMCF1206F76K20/1759189</a>
1	4.7MΩ	R7	4.7 MOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Au RMCF1206F4M70	RMCF1206F4M70CT-					