TY VALUE	PARTS	DESCRIPTION	MANUEACTURED DATE AND	VENDOR PART NUMBER	UNIT PRICE (IN 100+ BR. EX	T DDICE MEANIDEMENT	SOURCE		
ATT VALUE	FARIS	RESISTORS (THT)	MANUFACTURER PART NU	VENDOR PART NUMBER	ONLY PRICE (IN 1004 BR) EX	TRICE MEASUREMENT	SUINCE		
1 5.1kΩ	R1	1/2W resistor, metal film 700V	MF1/2CC5101F	S5.1KCACT-ND	0.3011	0.3011 0.138" Dia x 0.354" L (3.50mm x 9.00mm)	https://www.diaixev.com/en/oroducts/detail/kos-soeer-electronics-inc/MF1-2CC5101F/21880989		
3 10kΩ	R2, R6, R9	1/4W resistor, carbon film		CF14JT10K0CT-ND	0.0215	0.0645 0.091" Dia x 0.236" L (2.30mm x 6.00mm)	https://www.digikey.com/en/products/detail/CF14.JT10K0/CF14.JT10K0/CT-ND/1830374		
1 1kΩ	R3	1/4W resistor, carbon film		CF14JT1K00CT-ND	0.0215	0.0215 0.091" Dia x 0.236" L (2.30mm x 6.00mm)	https://www.digikey.com/en/products/idetai/CF14,JT1K00/CF14,JT1K00CT-ND/1830350		
	R4	1/4W resistor, carbon film		CF14JT75R0CT-ND	0.0215	0.0215 0.091" Dia x 0.236" L (2.30mm x 6.00mm)	https://www.digikey.com/en/products/detail/CF14.JT75R0/CF14.JT75R0CT-ND/1830324		
1 6.2kΩ	R5	1/4W resistor, carbon film		CF14JT6K20CT-ND	0.0215	0.0215 0.091" Dia x 0.236" L (2.30mm x 6.00mm)	https://www.digikey.com/en/products/idetait/CF14,IT6K20/CF14,IT6K20CT-ND/1830369		
1 4.7MΩ	R7	1/4W resistor, metal film, 1% (not 5%)		RNV14FAL4M70CT-ND	0.063	0.063 0.094" Dia x 0.236" L (2.40mm x 6.00mm)	https://www.digikey.com/en/products/detail/stackpole-electronics-inc/RNV14FAL4M70/2685263		
1 6.8MΩ	R8	0.6W resistor, carbon film, 1% (not 5%)		BC3869CT-ND	0.076	0.076 0.091" Dia x 0.236" L (2.30mm x 6.00mm)	https://www.digikey.com/en/products/detail/vishay-beyschlag-draloric-bc-components/MBB02070C8804FCT00/5063554		
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)	https://www.digikey.com/en/products/detail/stackpole-electronics-inc/CF14.JT4K70/1741428		
1 10MΩ	R11	1/4W resistor, metal film 700V	VR25000001005JR500	56-VR25000001005JR500CT-ND	0.1181	0.1181 0.098" Dia x 0.256" L (2.50mm x 6.50mm)	https://www.digikey.com/en/products/detail/vishay-beyschlag-draloric-bc-components/VR25000001005JR500/7350776		
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)	https://www.digikey.com/en/products/detail/CF14JT22K0/CF14JT22K0CT-ND/1830383		
1 5.1MΩ	R13	1/4W resistor, metal film 700V	VR25000005104JA100	BC4890CT-ND	0.0978	0.0978 0.098" Dia x 0.256" L (2.50mm x 6.50mm)	https://www.digikey.com/en/products/detail/vishay-beyschiao-drajoric-bc-components/VR25000005104.JA100/7350796		
1 20kΩ	RV1	Potentiometer. 1/2W 1.0 Turn	3362P-1-203LF	3362P-203LF-ND	0.7575	0.7575 0.275" x 0.260" Face (6.99mm x 6.60mm)	https://www.digikey.com/en/products/detail/bourns-inc/3362P-1-203LF/1088417		
		CAPACITORS (THT)							
2 10uE	C1, C3	MLCC in radial package with 0.1" lead spacing required	FG18X5R1E106MRT06	445-FG18X5R1E106MRT06CT-ND	0.2043	0.4086 0.157" L x 0.098" W (4.00mm x 2.50mm)	https://www.digikev.com/en/products/detail/ldk-corporation/FG18X5R1E108MRT08/7384735		
1 47pF	C2	MLCC in radial package with 0.1" lead spacing required		478-3164-ND	0.1315	0.1315 0.150" L x 0.100" W (3.81mm x 2.54mm)	https://www.digikey.com/en/products/stefsil/SR152A470KAR/478-3164-NDU/398906		
1 10nF = 10000pF		Ceramic in radial package 100V 0.2" lead spacing required		BC5213CT-ND	0.062	0.062 0.295" Dia (7.50mm)	https://www.digikey.com/en/products/defail/vishay-beyschlag-draforic-b-components/D103M/2975UH8LJ5R/2830060		
	C5	Ceramic in radial package with 0.2" lead spacing required		BC2678CT-ND	0.124	0.124 0.197" L x 0.126" W (5.00mm x 3.20mm)	https://www.digikey.com/en/products/defail/vishay-beyschlag-draforic-b-components/K224K20X7RFSUH5/2356767		
1 1uF	C6	Ceramic in radial package with 0.2" lead spacing required		445-181761-ND	0.0899	0.124 0.157 E x 0.126 W (0.00mm x 3.20mm) 0.0899 0.157" L x 0.098" W (4.00mm x 2.50mm)	INDEX./YVWW.dullarev.com/enjources/accessary.susery		
	C7	Ceramic in radial package with 0.2 lead spacing required Ceramic in radial package with 0.15* lead spacing required		940-161761-ND RC2671CT-ND	0.0899	0.0899 0.167 E x 0.098 W (4.00mm x 2.50mm) 0.0775 0.142 L x 0.091 W (3.60mm x 2.30mm)			
1 4.7nF					0.0775		https://www.digikev.com/en/groducts/defail/vishay-beyschlag-draloric-be-components/K153K10X7RF5UH5/2356760		
1 4./nF	C8	Ceramic in radial package with 0.2" lead spacing required (CHV)	S472M39Z5UN63J5R	1288PH-ND	0.1444	0.1444 0.394" Dia (10.00mm)	https://www.digikey.com/en/products/detail/S472M39Z5UN63J5R/1288PH-ND/2356824		
		INDUCTORS							
1 1mH	L1	Inductor, radial package	RLB0914-102KL	RLB0914-102KL-ND	0.26875	0.26875 0.343" Dia (8.70mm)	https://www.digikey.com/en/products/detail/bourns-inc/RLB0914-102KL/23527737WTz_header=search_go&s=N4lgTCBcDalEcBkBCAGAnARgCwFoMrAGkEcA5AERAF0BfIA		
		DIODES							
	D1	Blue LED 3mm,3 3.3V		754-1596-ND	0.151	0.151 2.90mm Dia	https://www.digikey.com/en/products/detail/WP710A10QBC%2FD/754-1598-ND/2769812		
1 BA159	D2	Fast switching diode, DO-41 package required	BA159-E3/54	BA159-E3/54GICT-ND	0.1171	0.1171 DO-204AL (DO-41)	https://www.digikey.com/en/products/detail/BA159-E3%2F54/BA159-E3%2F54GICT-ND/3711780		
		IC							
1 NJM78M05FA	U1	Linear Voltage Regulator 5V at 500mA	NJM78M05FA	2129-NJM78M05FA-ND	0.7562	0.7562 TO-220F	https://www.digikey.com/en/products/detail/nisshinbo-micro-devices-inc/NJM78M05FA/805792		
1 LMC555	U2	LMC555 CMOS-based 555 timer		LMC555CN/NOPB-ND	1.10575	1.10575 8-DIP (0.300*, 7.62mm)	https://www.digikey.com/en/products/detail/texas-instruments/LMC555CN-NOPB/32623		
2 STQ	U3, U4	N Channel MOSFET 600V 400MA TO92-3	STQ1HNK60R-AP	497-15648-1-ND	0.3879	0.7758 TO-92-3	https://www.digikey.com/en/products/detail/stmicroelectronics/STQ1HNK60R-AP/3945986		
1 TL5001	U5	Power converter control chip	TL5001AIP	296-10203-5-ND	2.9365	2.9365 8-DIP (0.300", 7.62mm)	https://www.digikey.com/en/products/detail/lexas-instruments/TL5001AIP/380448		
1 2N3904	Q1	NPN Transistor, TO-92 package	2N3904BU	2N3904FS-ND	0.1169	0.1169 TO-226-3, TO-92-3 (TO-226AA)	https://www.dipikev.com/en/products/detai/ZN3904BU/ZN3904FS-ND/1413		
	-	MISC							
1 SBM-20		Geiger Tube	SRM-20	SRM-20	13	13 May Len = 108 / 101 Eff Length = 91 0 / 83 5 (mm)	https://www.soylube.com/x-ray-and-geiger-tubes/341-shm-20.html		
2 DIP8		DIP SOCKET 8 pos		ED3044-5-ND	0.16283	0.32586 DIP, 0.3" (7.62mm) Row Spacing	https://www.digikey.com/en/products/defat/EOB87/1E793044-5-ND/4147594		
2 CLIPS		Fuse clips to hold SBM-20		36-3530-ND	0.2635	0.527 Fuse Size 0.25" Dia (6.35mm)	Into://www.disikey.com/en/oroducts/defail/keystone-electronics/3530.316021		
1 ROARD		MIT-NSE Geiger Counter Board		REV9	1.1677	1.1677 <board dimensions=""></board>	INDEX.PROVED OF THE PROPERTY O		
1 CASE		Serpac enclosure, black, clear top		052C.BK	7.29	7.29 5.62 x 3.25 x 1.4 in	INDEX./INVESTIGATION FOR THE PROPERTY OF THE P		
1 SWITCH		Serpac enclosure, black, clear top SPST Circular Switch		2057-SW-R2-1A-F-1-5-ND	0.4232				
				BA9VPC-ND		0.4232 Circular - 20.00mm Dia	https://www.digikey.com/en/products/detail/adam-tech/SW-R2-1A-F-1-5/15284451		
1 HOLD 1 BATT		9V Battery holder		BASVPC-ND FN22	1.7901	1.7901 Height Above Board 0.843* (21.41mm)	https://www.digikey.com/en/products/detail/mpd-memory-protection-devices/BA9VPC/2439228		
		Energizer Industrial 9V			1.431	1.431 49x46.5mm	https://la.co/d/gEASXDG		
2 SPADE		Spade Connectors		WM14275CT-ND	0.0836		https://www.digikey.com/en/products/idetail/molex/0197084013/3183362		
4 SCREW 1		Screws included with and for the Serpac Case		SR6005-ND		#4 x 3/8"	https://www.digikey.com/en/products/detail/serpac/6005/307599		
4 SCREW 2			90087A105	90087A105	0.1018	0.4072 #4-40x3/16"	https://www.mcmaster.com/90087A105/		
2 CONN		Female To Female spade connection wires (4.8mm)	N/A	N/A	0.467	0.934 4.8mm spade, 11.82" Length	https://a.co/d/c38aBzh		
1 AUDIO	J2	Audio Connection Jack (female) 3.5mm	54-00298	839-54-00298CT-ND	0.8888	0.8888 3.50mm (0.141", 1/8", Mini Plug) - Headphone	https://www.digikey.com/en/products/detail/tensiity-international-corp/54-00298/16579528		
		OPTIONAL							
1 ESP32		ESP32-C3-DevKitC-02	ESP32-C3-DevKitC-02	356-ESP32C3DEVKITC02	8	8	https://www.mouser.com/ProductDetail/Espressif-Systems/ESP32-C3-DevKitC-027gs=stgOd1AaK7%2F1Q62vsr4CMA%3D%3D&mgh=1&srsltid=AfmBOgpQOZ0cbQrO-p63nKXwfHJB0L7ft/zA0ByMY	(tO9_xXWEiZ3961kgCd8	18
2 HEADER		15 POS Female pinheader	PPTC151LFBN-RC	S7013-ND	0.75075	1.5015 Pitch - Mating 0.100" (2.54mm)	https://www.digikey.com/en/products/detail/sullins-connector-solutions/PPTC151LFBN-RC/810153		
1 PWR	J1	9V Connection Power Jack (Female) 2.1X5.5mm	EJ508A	EJ508A-ND	1.0443	1.0443 2.1x5.5mm	https://www.digikey.com/en/products/detail/mpd-memory-protection-devices/EJ508A/2439547		
1 M4011		Alternate usable geiger tube	M4011/J321	M4011/J321	\$5-20 (depending on src)	88mm x 10mm	Aliexpress, Amazon, Ebay		
		PACKAGING							
1 BOX		8 x 8 x 2-Inch Literature Mailers			0.8014	0.8014 8" x 8" x 2"	https://a.co/d/04CDcmVn		
7 PINK BAG		Pink Anti-Static Seal Top Bag			0.0014	0.581 2.5" x 3"	Injustica Cold (IN) VIII (
27 BAG		Zipper Lock Reclosable Clear Disposable Plastic Bags			0.01299	0.35073 2" X 3" - 2 MIL	comparing continuity and other continuity that the continuity cont		
1 BURBLE		Anti Static Bubble coushining for SBM-20 and Board			0.01299	0.35073 2 X 3 - 2 MIL	mips/scoreportering https://scoreportering		
1 BUBBLE 26 LABEL					0.17	0.17 1ft 0.52 1.5"x1.5"	Ultips://s.co/ddkcyst=989; https://s.co/ddkcyst=989;		
1 BIG BAG		Premium Label Supply White Sticker Square Labels = 1.5" x 1.5"			0.02	0.52 1.5°x1.5" 0.13 8" x 8"	Chips://s.com/s/Net/NY4M https://s.com/s/Net/NY4M https://s.com/s/Net/NY4M		
1 BIG BAG 1 INSERT		GPI - 100 Count 8" X 8" Zip Bags, Heavy-Duty 4 Mil Thick,			0.13	0.13 8" x 8" 0.17 11" x 8.5"			
		Laser Cut Box Insert				0.17 11" x 8.5" 2.1 11" x 8.5"	https://a.co/s/hsPaWeG		
14 INSTRUCTIONS		14 pages color			0.15				
2 CHIP FOAM		Foam Squares to protect small integrated circuits			0.02	0.04 1" x 1"	https://d.co/d/ftA7k8nz		
7 TAPE PIECES		3 inch			0.03	0.21 3"	https://a.co/d/408OLn_J		
		ALTERNATE SMD R and C							
		RESISTORS (SMD)							
	R1	5.1 kOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) A		541-5.10KFCT-ND	0.0316	1206 (3216 Metric)	https://www.digikey.com/en/products/detail/vishay-date/CRCW12065K10FKEA/1176724		
3 10kΩ	R2, R6, R9	10 kOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Au		RMCF1206FT10K0CT-ND	0.013	1208 (3216 Metric)	https://www.digikey.com/en/products/detail/stackpole-electronics-inc/RMCF1206FT10K0/1759869		
1 1kΩ	R3	RES 1K OHM 5% 1/4W 1208		RMCF1206JT1K00CT-ND	0.01	1206 (3216 Metric)	https://www.digikey.com/en/products/detail/stackpole-electronics-inc/mcf1208/t1k00/1757528		
1 75Ω	R4	RES 75 OHM 5% 1/4W 1208	RMCF1206JT75R0	RMCF1206JT75R0CT-ND	0.01	1206 (3216 Metric)	https://www.digikev.com/en/products/detail/stackpole-electronics-inc/mcf1208it75r01753880		
1 6.2k	R5	6.2 kOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) A		RMCF1206FT6K20CT-ND	0.013	1206 (3216 Metric)	https://www.diaikev.com/en/products/detail/stackpole-electronics-inc/RMCF1206F16K20/1759189		
1 4.7M	R7	4.7 MOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) A		RMCF1206FT4M70CT-ND	0.017	1206 (3216 Metric)	https://www.dialkey.com/en/products/defail/stackpoke-electronics-inc/RMCF1208F14M7017593487s=N4/gTCBcDalEoFkDCAxA(gADANhOFQBYEB2TEAXOF8g		
1 6.8M	R8	RES 6.8M OHM 1% 1/4W 1206		RMCF1206FT6M80CT-ND	0.017	1206 (3216 Metric)	INDEX./INVAVABILIES CONTRETINGUISSISSISSISSISSISSISSISSISSISSISSISSISS		
1 0.0M 2 4.7k	R10. R14	RES 4.7K OHM 5% 1/4W 1206		RMCF1206F16M60CT-ND	0.017	1206 (3216 Metric) 1206 (3216 Metric)			
2 4.7K	R10, R14	10 MOhms ±5% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) A		RMCF1206JT4K70CT-ND	0.01	1206 (3216 Metric) 1206 (3216 Metric)	https://www.digikey.com/en/produchs/defail/stackpole-electronics-inc/mmcf1208(14K7011753837) https://www.digikey.com/en/produchs/defail/stackpole-electronics-inc/mmcf1208(14K7011753837) https://www.digikey.com/en/produchs/defail/stackpole-electronics-inc/mmcf1208(14K7011753837)		
							https://www.digikey.com/en/products/detail/stack.pote-electronics-inc/RMCF1206UT10M0/1757578		
1 22k	R12	22 kOhms ±5% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Au		RMCF1206JT22K0CT-ND	0.011	1206 (3216 Metric)	https://www.digikey.com/en/products/detail/stackpole-electronics-inc/RMCE1206JT22K0/1757375		
1 5.1M,0.7kV	R13	5.1 MOhms ±5% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) A		738-RMCF1206JG5M10CT-ND	0.0104	1206 (3216 Metric)	https://www.digikey.com/en/products/detail/stackpole-electronics-inc/RMCF1208./G5M10/1753851		
1 20k	RV1	20 kOhms 0.5W, 1/2W PC Pins Through Hole Trimmer Potention	e 3362P-1-203LF	3362P-203LF-ND	0.7575	0.275" x 0.260" Face (6.99mm x 6.60mm)	https://www.digikey.com/en/products/detail/bourns-inc/3362P-1-203LF/1088417		
		CAPACITORS (SMD)							
2 10uF	C1, C3	10 µF ±20% 25V Ceramic Capacitor X5R 1206 (3216 Metric)	CL31A106MAHNNNE	1276-1181-1-ND	0.059	1206 (3216 Metric)	https://www.digikey.com/en/products/detail/samsung-electro-mechanics/CL31A108MAHNNNE/3886839		
1 47pF	C2	CAP CER 47PF 200V NP0 1206	12062A470JAT2A	478-12810-1-ND	0.119	1206 (3216 Metric)	https://www.digikey.com/en/products/detail/kyocera-avx/12062A470JAT2A/1604098		
		CAP CER 0.015UF 50V X7R 1206		399-C1206C153K5RAC7800CT-ND	0.119	1208 (3216 Metric)	https://www.digikey.com/en/products/detai/kemer/C1208C153J5BAC7800/22152797s=N4IgTCBcDai/MIEYwAYBsiCsBmAUhpSgl.JwDsAHMsiALoC%2BQA		
1 10nF = 10000pF				478-12815-1-ND	0.138	1206 (3216 Metric)	https://www.digikey.com/en/products/defailkyocers-svy/12083C2243ATZA/1604316		
	C5								
1 220n = 0.22uF	C5 C6	0.22 µF ±5% 25V Ceramic Capacitor X7R 1208 (3216 Metric)					https://www.dinikay.com/an/aradiude/datail/sameuro.alactro.machanics/CL31B105KCHNENE/3888752		
1 220n = 0.22uF 1 1uF	C6	1 µF ±10% 100V Ceramic Capacitor X7R 1206 (3216 Metric)	CL31B105KCHNFNE	1276-3094-1-ND	0.086	1206 (3216 Metric)	https://www.digikey.com/en/products/detail/samsung-electro-mechanics/CL31B105KCHNFNE/3888752		
1 220n = 0.22uF			CL31B105KCHNFNE C1208C153K5RAC7800				https://www.dipikey.com/en-productablefallsamsung-electro-mechaniculCL318109KCHNFNE08888752 https://www.dipikey.com/en-productablefallkamselC1090151339RAC788002187979-NM91C18CD3MNEY/wAYBsIC38BmAUhoSgiJahDsAHMsiALoCN2BQA https://www.dipikev.com/en-productablefallkamselC1090151339RAC788002287979-NM91C18CD3MNEY/wAYBsIC38BmAUhoSgiJahDsAHMsiALoCN2BQA https://www.dipikev.com/en-productablefallkamselC2090151339RAC78800A287979-NM91C18CD3MNEY/wAYBsIC38BmAUhoSgiJahDsAHMsiALoCN2BQA https://www.dipikev.com/en-productablefallkamselC209015339RAC78800A287979-NM91C18CD3MNEY/wAYBsIC38BmAUhoSgiJahDsAHMsiALoCN2BQA https://www.dipikev.com/en-productablefallkamselC209015339RAC78800A287979-NM91C18CD3MNEY/wAYBsIC38BmAUhoSgiJahDsAHMsiALoCN2BQA https://www.dipikev.com/en-productablefallkamselC209015339RAC78800A287979-NM91C18CD3MNEY/wAYBsIC38BmAUhoSgiJahDsAHMsiALoCN2BQA https://www.dipikev.com/en-productablefallkamselC209015339RAC78800A28797-NM91C18CD3MNEY/wAYBsIC38BmAUhoSgiJahDsAHMsiALoCN2BQA https://www.dipikev.com/en-productablefallkamselC20901534778800A28797-NM91C18CD3MNEY/wAYBsIC38BmAUhoSgiJahDsAHMsiALoCN2BQA https://www.dipikev.com/en-productablefallkamselC2090153478800A28788		