

Integrated Circuits							
Vendor	Vendor part number	Manufacturer	Manufacturer part number	Description	Package	Unit Cost [\$]	Quantity
Digikey	505-AD8565AKSZ-REEL7CT-ND	Analog Devices Inc.	AD8565AKSZ-REEL7	Rail-to-Rail op amp	5-TSSOP	2.09	5
Digikey	LTC6910-3CTS8#TRMPBFCT-ND	Analog Devices Inc.	LTC6910-3CTS8#TRMPBF	Digitally Programmable Gain Amplifier	SOT-23-8	3.53	1
Digikey	AD7819YRZ-ND	Analog Devices Inc.	AD7819YRZ	200 ksps, 8 bit SAR ADC	16-SOIC	8.7	1
Digikey	ADG1419BRMZ-REEL7CT-ND	Analog Devices Inc.	ADG1419BRMZ-REEL7	2.4 Ohm SPDT Switch	8-MSOP	5.54	1
Digikey	AZ1117CH-3.3TRG1DICT-ND	Diodes Incorporated	AZ1117CH-3.3TRG1	Fixed 3.3V Linear Voltage Regulator	SOT-223-3	0.45	1
Digikey	LMV331W5-7DICT-ND	Diodes Incorporated	LMV331W5-7	Trigger Comparator	SOT-25	0.36	1
Digikey	296-11604-1-ND	Texas Instruments	SN74LVC1G125DCKR	Non-inverting Buffer Gate	5-TSSOP	0.33	1
Digikey	510KCAM200000BAG-ND	Skyworks Solutions Inc.	510KCAM200000BAG	200 kHz Crystal Oscillator	4-SMD, no Lead	5.3	1
Digikey	336-5890-1-ND	Silicon Labs	CP2102N-A02-GQFN28R	USB TO UART BRIDGE	28-QFN	4.66	1
Digikey	WM1399CT-ND	Molex	1050170001	CONN RCPT USB2.0 MICRO B	SMD	1.01	1
Amazon	ILI9341 240x320	Adafruit Industries LLC	2770	2.8" TFT Display - 240x320	PCB	15	1
Mouser Electronics	356-ESP32-WROOMDAN16	Espressif Systems	ESP32-WROOM-32 (16MB)	ESP32 Microcontroller	Tray	4.7	1
						Total	45.03
Resistors							
Vendor	Vendor part number	Manufacturer	Manufacturer part number	Description	Package	Unit Cost [\$]	Quantity
Digikey	RHM10KDCT-ND	Rohm Semiconductor	ESR03EZPJ103	RES SMD 10K OHM 5% 1/4W	0603	0.65	2
Digikey	RHM100KDCT-ND	Rohm Semiconductor	ESR03EZPJ104	RES SMD 100K OHM 5% 1/4W	0603	0.13	5
Mouser	13-RT1206CRE07900KLCT-ND	YAGEO	RT1206CRE07900KL	RES SMD 900K OHM 0.25% 1/4W	1206	0.638	2
Digikey	3386P-1-101TLF-ND	Bourns Inc.	356	10k OHM Trimmer Potentiometer	Through Hole	2.62	6
Digikey	311-2632-1-ND	YAGEO	RT0603DRE075K1L	RES SMD 5.1K OHM 0.5% 1/10W	0603	0.1	1
Digikey	RHM3KDCT-ND	Rohm Semiconductor	ESR03EZPJ302	RES SMD 3K OHM 5% 1/4W	0603	0.13	1
Digikey	RHM2.0KDCT-ND	Rohm Semiconductor	ESR03EZPJ202	RES SMD 2K OHM 5% 1/4W	0603	0.13	1
Digikey	RNCP0603FTD1K00CT-ND	Stackpole Electronics Inc	RNCP0603FTD1K00	RES 1K OHM 1% 1/8W	0603	0.1	1
Digikey	RNCP0603FTD22K1CT-ND	Stackpole Electronics Inc	RNCP0603FTD22K1	RES 22.1K OHM 1% 1/8W	0603	0.1	1
Digikey	738-RNCF0603DTE47K5CT-ND	Stackpole Electronics Inc	RNCF0603DTE47K5	RES SMD 47.5K OHM 0.5% 1/6W	0603	0.1	1
Digikey	RMCF0603ZT0R00CT-ND	Stackpole Electronics Inc	RMCF0603ZT0R00	RES 0 OHM JUMPER 1/10W	0603	0.1	1
Digikey	311-0.0ARCT-ND	YAGEO	RC0805JR-070RL	RES 0 OHM JUMPER 1/8W	0805	0.1	1
Digikey	CD14ZT0R00CT-ND	Stackpole Electronics Inc	CD14ZT0R00	RES 0 OHM JUMPER 1/4W	Through Hole	0.1	1
						Total	19.706
Capacitors							
Vendor	Vendor part number	Manufacturer	Manufacturer part number	Description	Package	Unit Cost [\$]	Quantity
Digikey	490-1641-1-ND	Murata Electronics	GRM2195C1H912JA01D	CAP CER 9100PF 50V C0G/NP0	0805	0.23	4
Digikey	490-6445-1-ND	Murata Electronics	GRM2165C2A102JA01D	CAP CER 1000PF 100V C0G/NP0	0805	0.11	5
Digikey	490-10475-1-ND	Murata Electronics	GRM188R61A106ME69D	CAP CER 10UF 10V X5R	0603	0.14	10
Digikey	490-5798-1-ND	Murata Electronics	GCJ188R71H104KA12D	CAP CER 0.1UF 50V X7R	0603	0.16	10
Digikey	490-12330-1-ND	Murata Electronics	GRT188R61H105KE13D	CAP CER 1UF 50V X5R	0603	0.18	10
Digikey	490-GRM188R60J476ME15JCT-ND	Murata Electronics	GRM188R60J476ME15J	CAP CER 47UF 6.3V X5R	0603	0.5	10
Digikey	13-CC0603JRNPO9BN501CT-ND	YAGEO	CC0603JRNPO9BN501	CAP CER 500PF 50V C0G/NPO	0603	0.11	10
Digikey	399-C0603C475K9PAC7867CT-ND	KEMET	C0603C475K9PAC7867	CAP CER 4.7UF 6.3V X5R	0603	0.16	1
						Total	12.63
SemiConductor Devices							

Vendor	Vendor part number	Manufacturer	Manufacturer part number	Description	Package	Unit Cost [\$]	Quantity
Digikey	NSR05F40NXT5GOSCT-ND	onsemi	NSR05F40NXT5G	Schottky Diode	0402	0.39	4
Digikey	160-1447-1-ND	Lite-On Inc.	LTST-C191KRKT	LED RED CLEAR SMD	0603	0.25	1
Digikey	D5V0L1B2T-7DICT-ND	Diodes Incorporated	D5V0L1B2T-7	TVS DIODE 5VWM 14VC SOD523	SOD-523	0.29	1
						Total	2.1
Connectors							
Vendor	Vendor part number	Manufacturer	Manufacturer part number	Description	Package	Unit Cost [\$]	Quantity
Digikey	S7012-ND	Sullins Connector Solutions	PPTC141LFBN-RC	CONN HDR 14POS 0.1 TIN PCB	Through Hole	0.92	1
Digikey	BKCT3151-0-ND	Cal Test Electronics	CT3151-0	CONN BANANA JACK SOLDER BLACK	Through Hole	2.45	1
Digikey	BKCT3151-2-ND	Cal Test Electronics	CT3151-2	CONN BANANA JACK SOLDER RED	Through Hole	2.45	1
Amazon	2 PCs 4mm Banana Plug Alligator Clip					10	1
Digikey	2223-TS04-66-50-BK-260-SMT-ND	CUI Devices	TS04-66-50-BK-260-SMT	tactile Switch SPST-NO Top Actuated Surface Mount	4-SMD	0.18	1
						Total	15.08
						Total	94.546