

Integrated Circuits							
Vendor	Vendor part number	Manufacturer	Manufacturer part number	Description	Package	Unit Cost [\$]	Quantity
Digikey	505-LTC1420CGN#PBF-ND	Analog Devices Inc.	LTC1420CGN#PBF	10MSPS, 12-bit Pipelined ADC	28-SSOP	15.67	1
Digikey	505-AD8137YRZ-ND	Analog Devices Inc.	AD8137YRZ	Fully Differential ADC Driver	8-SOIC	3.75	2
Digikey	LTC6910-3CTS#TRMPBFCT-ND	Analog Devices Inc.	LTC6910-3CTS#TRMPBF	Digitally Programmable Gain Amplifier	SOT-23-8	3.53	4
Digikey	110-CB3LV-3I-10M000000CT-ND	CTS-Frequency Controls	CB3LV-3I-10M000000	10 MHz Clock Oscillator	4-SMD	1.34	1
Digikey	505-LTC6228IS6#TRMPBFCT-ND	Analog Devices Inc.	LTC6228IS6#TRMPBF	Rail-to-Rail Op Amp	SOT-23-6	5.62	1
Digikey	505-LTC6752IS5#TRPBFCT-ND	Analog Devices Inc.	LTC6752IS5#TRPBF	Trigger Comparator	SOT-23-5	5.27	1
Digikey	AD8038ARZ-REEL7CT-ND	Analog Devices Inc.	AD8038ARZ-REEL7	Voltage Feedback Amplifier	8-SOIC	2.92	1
Digikey	296-33780-5-ND	Texas Instruments	SN74ALVCT7804-40DL	512 X 18 FIFO Memory Storage	56-SSOP	8.68	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
Resistors							
Vendor	Vendor part number	Manufacturer	Manufacturer part number	Description	Package	Unit Cost [\$]	Quantity
Digikey	RNCP0603FTD1K00CT-ND	Stackpole Electronics Inc	RNCP0603FTD1K00	1k Ohm 1% 0.125W Thin Film Resistor	0603	0.1	6
Digikey	RNCP0603FTD4K02CT-ND	Stackpole Electronics Inc	RNCP0603FTD4K02	4k Ohm 1% 0.125W Thin Film Resistor	0603	0.1	4
Digikey	2019-RN73R1JTTD3161B25CT-ND	KOA Speer Electronics, Inc.	RN73R1JTTD3161B25	3.16k Ohm 0.1% 0.1W Thin Film Resistor	0603	0.2	2
Digikey	2019-RN73R1JTTD2001B25CT-ND	KOA Speer Electronics, Inc.	RN73R1JTTD2001B25	2k Ohm 0.1% 0.1W Thin Film Resistor	0603	0.2	4
Digikey	P1.33KDBCT-ND	Panasonic Electronic Components	ERA-3AEB1331V	1.33k Ohm 0.1% 0.1W Thin Film Resistor	0603	0.31	2
Digikey	2019-RN73R1JTTD1052B25CT-ND	KOA Speer Electronics, Inc.	RN73R1JTTD1052B25	10.5k Ohm 0.1% 0.1W Thin Film Resistor	0603	0.2	4
Digikey	P6.04KDBCT-ND	Panasonic Electronic Components	ERA-3AEB6041V	6.04k Ohm 0.1% 0.1W Thin Film Resistor	0603	0.31	2
Digikey	2019-RN73R1JTTD49R9B25CT-ND	KOA Speer Electronics, Inc.	RN73R1JTTD49R9B25	49.9 Ohm 0.1% 0.1W Thin Film Resistor	0603	0.2	7
Digikey	P348DBCT-ND	Panasonic Electronic Components	ERA-3AEB3480V	348 Ohm 0.1% 0.1W Thin Film Resistor	0603	0.31	1
Digikey	P150DBCT-ND	Panasonic Electronic Components	ERA-3AEB151V	150 Ohm 0.1% 0.1W Thin Film Resistor	0603	0.31	1
Digikey	2019-RN73R1JTTD1000B25CT-ND	KOA Speer Electronics, Inc.	RN73R1JTTD1000B25	100 Ohm 0.1% 0.1W Thin Film Resistor	0603	0.2	1
Digikey	2019-RN73R1JTTD2000B25CT-ND	KOA Speer Electronics, Inc.	RN73R1JTTD2000B25	200 Ohm 0.1% 0.1W Thin Film Resistor	0603	0.2	1
Capacitors							
Vendor	Vendor part number	Manufacturer	Manufacturer part number	Description	Package	Unit Cost [\$]	Quantity
Digikey	445-7344-1-ND	TDK Corporation	C1005X7R1V104K050BB	0.1uF 10% 35V Ceramic Capacitor	0402	0.1	3
Digikey	399-C0402C105K9PAC7867CT-ND	KEMET	C0402C105K9PAC7867	1uF 10% 6.3V Ceramic Capacitor	0402	0.1	4
Digikey	311-1424-1-ND	YAGEO	CC0603JRNPO9BN200	20pF 5% 50V Ceramic Capacitor	0603	0.1	1
Digikey	311-1058-1-ND	YAGEO	CC0603JRNPO9BN100	10pF 5% 50V Ceramic Capacitor	0603	0.1	2
Digikey	13-CC0603JRNPO9BN501CT-ND	YAGEO	CC0603JRNPO9BN501	500pF 5% 50V Ceramic Capacitor	0603	0.11	1
Digikey	311-1061-1-ND	YAGEO	CC0603JRNPO9BN180	18pF 5% 50V Ceramic Capacitor	0603	0.1	2
Digikey	311-1069-1-ND	YAGEO	CC0603JRNPO9BN101	100pF 5% 50V Ceramic Capacitor	0603	0.1	1
Switches							
Vendor	Vendor part number	Manufacturer	Manufacturer part number	Description	Package	Unit Cost [\$]	Quantity
Digikey	255-1355-5-ND	Panasonic Electric Works	TQ2-L2-9V	1A 9V DPDT Latching Dual Coil Relay	Through Hole	3.66	2
Digikey	2223-TS02-66-60-BK-100-SCR-D-ND	CUI Devices	TS02-66-60-BK-100-SCR-D	SPST Tactile Pushbutton Switch	Through Hole	0.1	10
Digikey	3386P-1-1011TLF-ND	Bourns Inc.	356	10k Ohm Trimmer Potentiometer	Through Hole	2.62	1
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	2N7002-FDICT-ND	Diodes Incorporated	2N7002-7-F	60V 115mA n-channel MOSFET	SOT-23-3	0.2	2