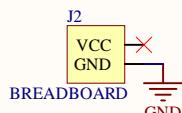
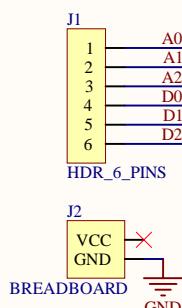
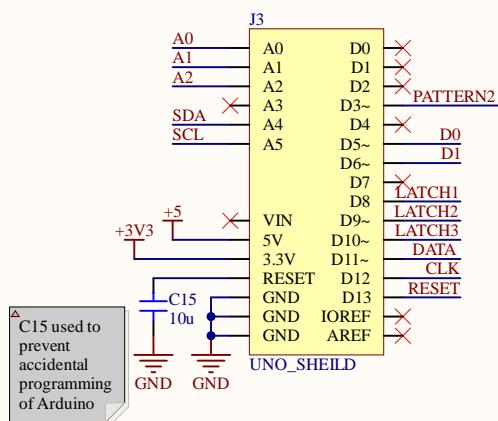


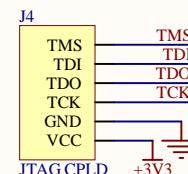
I/O



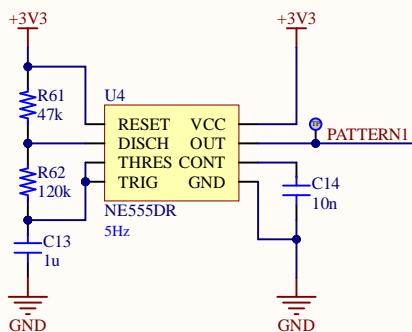
Arduino



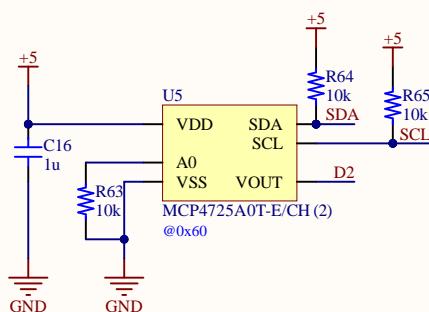
JTAG



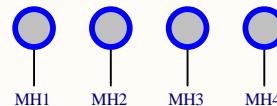
555 Timer



DAC

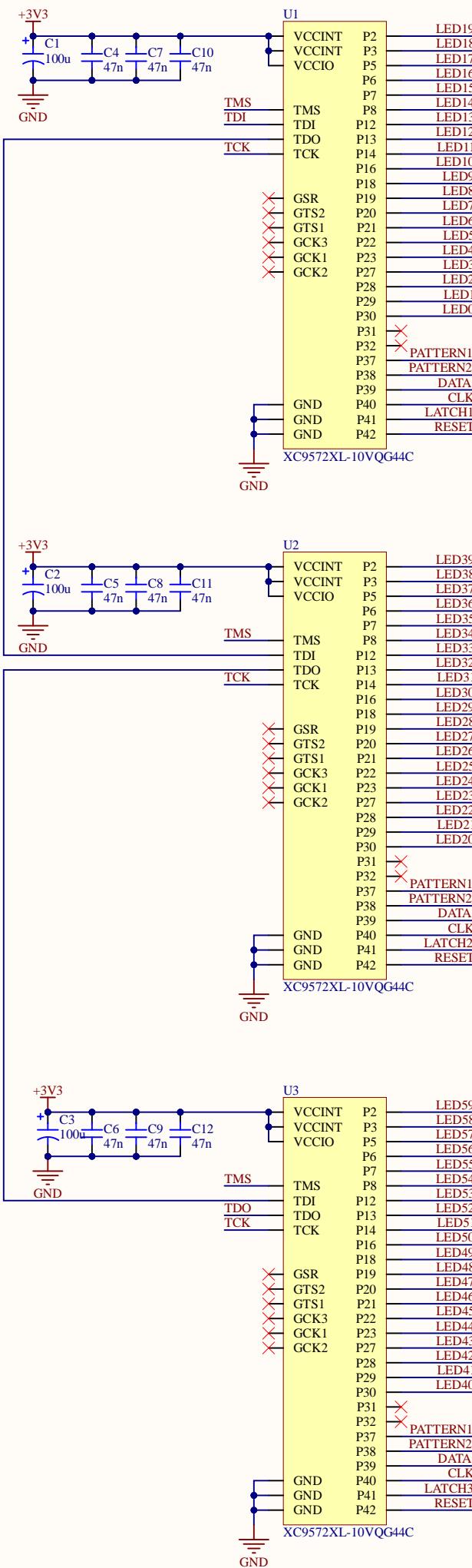


Mounting Holes



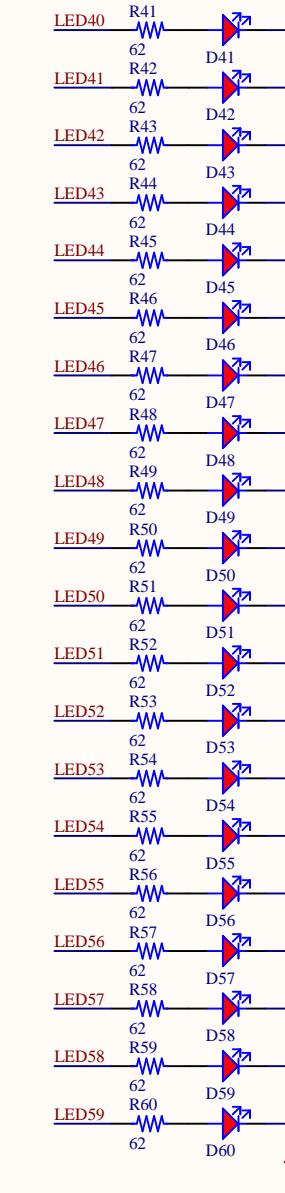
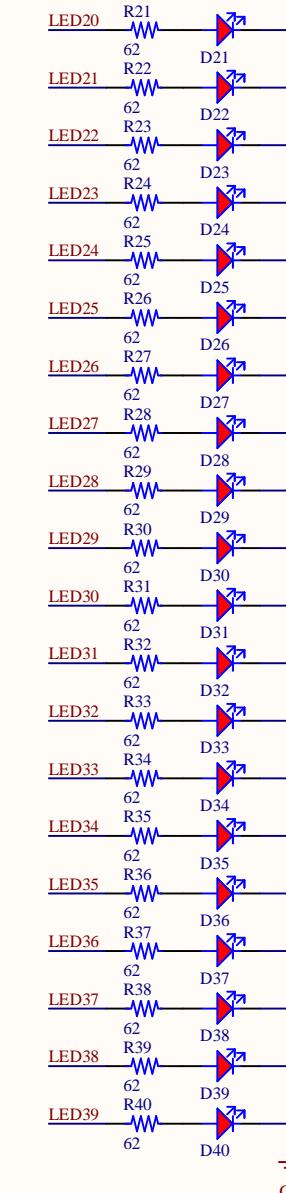
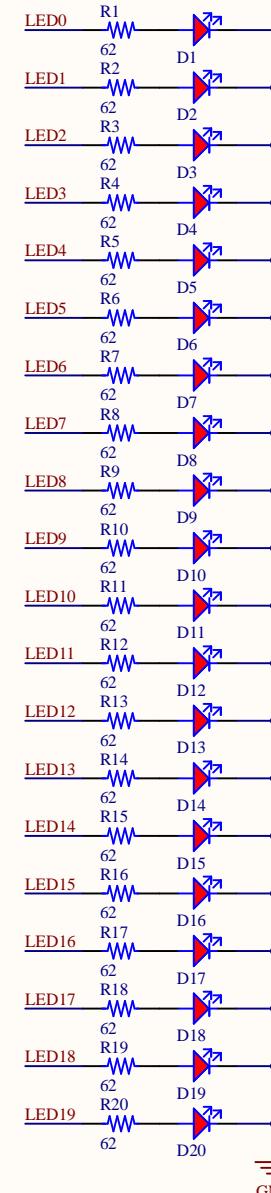
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File:	C:\Users\.\BlinkBoard.SchDoc	Drawn By: MAKinteract

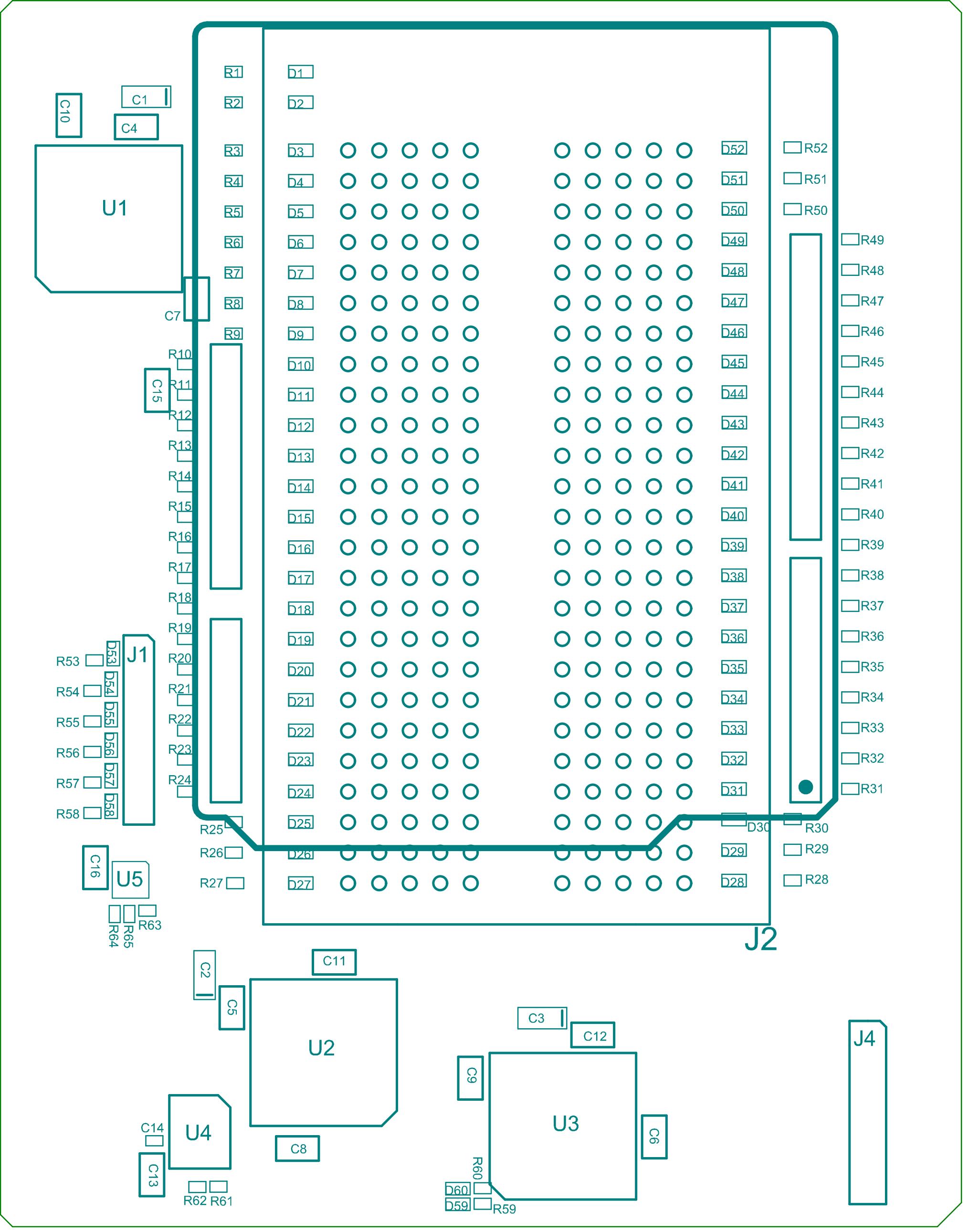


CPLDs

LEDs



Title		
BlinkBoard_v1.0		Revision
Size	Number	1
A3		
Date:	7/07/2022	Sheet of 3
File:	C:\Users\.\LEDcontroller.SchDoc	Drawn By: MAKinteract



Designator	Packaging	Supplier Part Number 1	Comment	Description	Manufacturer 1	Manufacturer Part Number 1	Quantity	Supplier Currency 1	Supplier Order Qty 1	Supplier Unit Price 1
C1, C2, C3	Tape and Reel	399-3688-6-ND	100u	100uF Solid MnO2 Tantalum Capacitor, 4 V +/- 20%, T491 Series	KEMET	T491A107M004AT	3	USD	3	0.73
C4, C5, C6, C7, C8, C9, C10, C11, C12	Tape and Reel	311-3553-6-ND	47n	Cap Ceramic 0.047uF 50V X7R 5% SMD 0805 125C Paper T/R	Yageo	CC0805JRX7R9BB473	9	USD	9	0.17
C13, C16	Tape and Reel	311-1358-6-ND	1u	CERAMIC CAPACITOR, 1uF, 25V, Y5V, +80, -20%, 0805, FULL REEL; Product Range:CC Series; Capacitance:1 F; Capacitance Tolerance:+80%, -20%; Dielectric Characteristic:Y5V ; Voltage Rating:25V; Ceramic Capacitor Case:0805 [2012 Metric]; RoHS Compliant: Yes	Yageo	CC0805ZRY5V8BB105	2	USD	2	0.14
C14	Tape and Reel	311-1703-6-ND	10n	Cap Ceramic 0.01uF 10V X7R 10% SMD 0402 125C Paper T/R	Yageo	CC0402KRX7R6BB103	1	USD	1	0.1
C15	Tape and Reel	311-2084-6-ND	10u	Cap Ceramic 10uF 6.3V X5R 10% SMD 0805 85C Paper T/R	Yageo	CC0805KRX5R5BB106	1	USD	1	0.21
D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60	Tape and Reel	VLMS1500-GS08DKR-ND	LED0402_RED	Led red	Vishay	VLMS1500-GS08	60	USD	60	0.322
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60	Tape and Reel	311-62.0LRDKR-ND	62	RES SMD 62 OHM 1% 1/16W 0402	Yageo	RC0402FR-0762RL	60	USD	60	0.016
R61	Tape and Reel	311-47KJRDKR-ND	47k	YAGEO - RC0402JR-0747KL - SMD Chip Resistor, 0402 [1005 Metric], 47 kohm, RC Series, 50 V, Thick Film, 63 mW	Yageo	RC0402JR-0747KL	1	USD	1	0.1
R62	Tape and Reel	311-120KJRDKR-ND	120k	RES SMD 120K OHM 5% 1/16W 0402	Yageo	RC0402JR-07120KL	1	USD	1	0.1
R63, R64, R65	Tape and Reel	YAG1249DKR-ND	10k	RES SMD 10K OHM 1% 1/16W 0402	Yageo	RC0402FR-0710KP	3	USD	3	0.1
U1, U2, U3	Tray	122-1448-ND	XC9572XL-10VQG44C	XILINX - XC9572XL-10VQG44C. - CPLD, 72 MACROCELL, 3.3V, 44VQFP	Xilinx	XC9572XL-10VQG44C	3			
U4	Tape and Reel	296-6501-6-ND	NE555DR	TEXAS INSTRUMENTS NE555DR, TIMER, SINGLE, 500KHZ, 16V, SOIC-8	Texas Instruments	NE555DR	1	USD	1	0.46
U5	Tape and Reel	MCP4725A0T-E/CHDKR-ND	MCP4725A0T-E/CH (2)	DAC 1-CH Resistor-String 12-bit 6-Pin SOT-23A T/R	Microchip	MCP4725A0T-E/CH	1	USD	1	1.28

