

Quantity	Reference	Value	MFG	MFG PN	Digikey P/N	Digikey Price	Price Extended
32	C15,C21,C25,C29,C16,C20,C23,C24,C43,C49,C52,C55,C44,C50,C54,C56,C71,C77,C80,C83,C72,C78,C82,C84,C99,C105,C108,C111,C100,C106,C110,C112,	1nF	Yageo	CC0603KRX7R9BB102	311-1080-1-ND	\$ 0.10	\$ 3.20
10	C9,C10,C37,C38,C65,C66,C93,C94,C157,C158,	22nF	Samsung Electro-Mechanics	CL10B223KB8WPNC	311-3601-1-ND	\$ 0.10	\$ 1.00
88	C115,C116,C117,C118,C120,C122,C124,C126,C119,C125,C1,C3,C5,C7,C13,C27,C17,C11,C2,C4,C6,C8,C14,C19,C18,C12,C26,C30,C33,C35,C41,C47,C45,C39,C28,C32,C34,C36,C42,C48,C46,C40,C57,C59,C61,C63,C69,C75,C73,C67,C58,C60,C62,C64,C70,C76,C74,C68,C85,C87,C89,C91,C97,C103,C101,C95,C86,C88,C90,C92,C98,C104,C102,C96,C139,C142,C140,C143,C141,C144,C153,C154,C155,C156,C113,C163,C164,C114,	100nF	Yageo	CC0603KRX7R9BB104	311-3601-1-ND	\$ 0.10	\$ 8.80
4	C123,C128,C145,C148,	1uF	Samsung Electro-Mechanics	CL10B105KP8NNNC	1276-1946-1-ND	\$ 0.10	\$ 0.40
10	C129,C131,C133,C132,C130,C134,C136,C138,C137,C135,	2.2uF	Taiyo Yuden	LMK107B7225KA-T	587-2983-1-ND	\$ 0.25	\$ 2.50
6	C151,C152,C159,C160,C161,C162	10uF	KEMET	C1210C106M6PACTU	399-5509-1-ND	\$ 0.29	\$ 1.72
4	C121,C127,C146,C147,	10uF	Samsung Electro-Mechanics	CL21A106KOQNNWE	1276-2894-1-ND	\$ 0.21	\$ 0.84
10	C31,C22,C51,C53,C79,C81,C107,C109,C149,C150,	100uF	United Chemi-Con	EMZR500ARA101MF80G	565-5153-1-ND	\$ 0.78	\$ 7.80
1	D9,	BAT43	Diodes Incorporated	BAT43WS-7-F	BAT43WS-FDICT-ND	\$ 0.47	\$ 0.47
4	D11,D12,D13,D14,	Blue	Würth Electronics Inc.	150080BS75000	732-4982-1-ND	\$ 0.18	\$ 0.72
5	D15,D16,D17,D18,D19,	DB2W40300L	Panasonic Electronic Components	DB2W40300L	DB2W40300LCT-ND	\$ 0.60	\$ 3.00
9	D3,D4,D2,D1,D5,D7,D10,D8,D6,	Red	Würth Electronics Inc.	150080SS75000	732-4985-1-ND	\$ 0.18	\$ 1.62
3	F1,F2,F3,	3557-2	Keystone Electronics	3557-2	36-3557-2-ND	\$ 0.98	\$ 2.94
15	J13,J15,J19,J18,J17,J16,J14,J20,J22,J24,J23,J21,J27,J28,J26,	CONN_01X02	Molex, LLC	22-23-2021	WM4200-ND	\$ 0.17	\$ 2.55
5	J29,J32,J33,J31,J30,	CONN_01X03	Molex, LLC	22232031	WM4201-ND	\$ 0.24	\$ 1.20
9	J3,J4,J5,J6,J7,J8,J9,J10,J11,	CONN_01X04	Molex, LLC	22232041	WM4202-ND	\$ 0.28	\$ 2.52
1	J25,	CONN_01X06	TE Connectivity AMP Connectors	8PCV-06-006	A98464-ND	\$ 4.72	\$ 4.72
1	J12,	CONN_02X03	Harwin Inc.	M20-9980346	952-2121-ND	\$ 0.24	\$ 0.24
1	J36,	CONN_02X04	Amphenol FCI	75869-332LF	609-5123-ND	\$ 0.54	\$ 0.54
3	J1,J35,J2,	CONN_02X05	On Shore Technology Inc.	302-S101	ED1543-ND	\$ 0.29	\$ 0.87
1	J34,	USB_MINI	EDAC Inc.	690-005-299-043	151-1206-1-ND	\$ 0.58	\$ 0.58
1	L2,	Ferrite_0805	Vishay Dale	CRCW08050000Z0EA	541-0.0ACT-ND	\$ 0.10	\$ 0.10
1	L1	10uH	TDK Corporation	MLZ2012N100LT000	445-6762-1-ND	\$ 0.14	\$ 0.14
2	L3,L4,	10uH	Vishay Dale	IHLP2525CZER100M11	541-2577-1-ND	\$ 1.72	\$ 3.44
2	R83,R85,	0.1	Stackpole Electronics Inc.	CSR1206FTR100	CSR1206FTR100CT-ND	\$ 0.42	\$ 0.84
2	R84,R86,	0.13	Stackpole Electronics Inc.	CSR1206FTR130	CSR1206FTR130CT-ND	\$ 0.47	\$ 0.94
5	R55,R61,R62,R56,R78,	180	Stackpole Electronics Inc.	RNCP0603FTD180R	RNCP0603FTD180RCT-ND	\$ 0.10	\$ 0.50
1	R97	330	Stackpole Electronics Inc.	RMCF0603JT330R	RMCF0603JT330RCT-ND	\$ 0.10	\$ 0.10
1	R90,	681	Stackpole Electronics Inc.	RNCP0603FTD681R	RNCP0603FTD681RCT-ND	\$ 0.10	\$ 0.10
1	R88,	750	Stackpole Electronics Inc.	RNCP0603FTD750R	RNCP0603FTD750RCT-ND	\$ 0.10	\$ 0.10
11	R35,R39,R36,R40,R42,R67,R71,R74,R72,R68,R77,	1.00K	Stackpole Electronics Inc.	RNCP0603FTD1K00	RNCP0603FTD1K0OCT-ND	\$ 0.10	\$ 1.10
1	R89,	3.60K	Panasonic Electronic Components	ERJ-3EKF3601V	P3.60KHCT-ND	\$ 0.10	\$ 0.10
5	R52,R49,R45,R46,R50,	4.70K	Yageo	RC0603FR-074K7L	311-4.70KHRCT-ND	\$ 0.10	\$ 0.50
6	R58,R63,R64,R57,R75,R76,	6.80K	Stackpole Electronics Inc.	RMCF0805FT6K80	RMCF0805FT6K8OCT-ND	\$ 0.10	\$ 0.60
30	R91,R93,R92,R1,R2,R9,R10,R17,R18,R25,R26,R33,R37,R41,R38,R34,R43,R47,R51,R48,R44,						
1	R53,R59,R60,R54,R65,R69,R73,R70,R66,	10.0K	Stackpole Electronics Inc.	RNCP0603FTD10K0	RNCP0603FTD10K0CT-ND	\$ 0.10	\$ 3.00
1	R87,	10.5K	Panasonic Electronic Components	ERJ-3EKF1052V	P10.5KHCT-ND	\$ 0.10	\$ 0.10
5	R81,R82,R95,R94,R96,	100K	Panasonic Electronic Components	ERJ-3EKF1003V	P100KHCT-ND	\$ 0.10	\$ 0.50
2	R79,R80,	0R	Yageo	RC0603JR-070R	311-0.0GRCT-ND	\$ 0.10	\$ 0.20
8	R3,R4,R11,R12,R19,R20,R27,R28,	10R	Stackpole Electronics Inc.	RNCP0603FTD10R0	RNCP0603FTD10ROCT-ND	\$ 0.10	\$ 0.80
16	R5,R7,R6,R8,R13,R15,R14,R16,R21,R23,R22,R24,R29,R31,R30,R32,	0R22	Susumu	RL1220S-R22-F	RL12S.22FCT-ND	\$ 0.34	\$ 5.44
1	SW1	SW_Push	Omron Electronics Inc-EMC Div	B3S-1000P	SW836CT-ND	\$ 0.82	\$ 0.82
2	U19,U20,	A4403	Allegro MicroSystems, LLC	A4403GEUTR-T	620-1273-1-ND	\$ 1.82	\$ 3.64
1	U18,	AP2112-3.3	Diodes Incorporated	AP2112K-3.3TRG1	AP2112K-3.3TRG1DICT-ND	\$ 0.48	\$ 0.48
1	U21,	ATSAMD51	Microchip Technology	ATSAMD51N19A-AU	ATSAMD51N19A-AU-ND	\$ 4.99	\$ 4.99
4	U14,U15,U17,U16,	CSD18532	Texas Instruments	CSD18532Q5B	296-35628-6-ND	\$ 2.60	\$ 10.40
6	U9,U11,U13,U12,U10,U23,	PMV40UN	Nexperia USA Inc.	PMV40UN2R	1727-1900-1-ND	\$ 0.57	\$ 3.42
1	U22,	SPIFLASH_SOIC8	Adesto Technologies	AT25SF041-SSHD-T	1265-1131-1-ND	\$ 0.36	\$ 0.36
8	U1,U2,U3,U4,U5,U6,U7,U8,	TMC2130	Trinamic Motion Control GmbH	TMC2130-LA-T	1460-1130-1-ND	\$ 5.28	\$ 42.24
1	PCB1	PCB1	SeedStudio	PCB1	-	\$ 13.50	\$ 13.50

TOTAL BOM \$ 146.68