

BOM

Bunsen
Rev. 1.1

1/31/2021

Qty.	Reference	Value	Component	Tol.	Note	Manufacturer	Part Number	Mouser Number	Price	Total
2	D1, D2	1N5819	Diode		SOD-123	Diodes Inc.	1N5819HW-7-F	621-1N5819HW-F	\$ 0.40	\$ 0.80
1	IC1	LM4040 2V	Voltage Ref.	0.1%	SOT-23	Texas Instruments	LM4040AIM3-2.0/NOPB	926-LM4040AIM320NOPB	\$ 1.79	\$ 1.79
1	IC2	OPA2171	Op Amp		SO-8	Texas Instruments	OPA2171AID	595-OPA2171AID	\$ 2.14	\$ 2.14
2	IC3, IC4	OPA4171	Op Amp		SO-14	Texas Instruments	OPA4171AIDR	595-OPA4171AIDR	\$ 2.73	\$ 5.46
6	R15, R16, R17, R31*, R32, R33 - see note at bottom	51R	Resistor	1%	0603	Yageo	RC0603FR-0751RL	603-RC0603FR-0751RL	\$ 0.10	\$ 0.60
4	R4, R8, R9, R18	1.0k	Resistor	1%	0603	Yageo	RC0603FR-071KL	603-RC0603FR-071KL	\$ 0.10	\$ 0.40
1	R21	1.2k	Resistor	1%	0603	Yageo	RC0603FR-101K2L	603-RC0603FR-101K2L	\$ 0.10	\$ 0.10
1	R1	2.2k	Resistor	1%	0603	Yageo	RC0603FR-072K2L	603-RC0603FR-072K2L	\$ 0.10	\$ 0.10
1	R24	39k	Resistor	1%	0603	Yageo	RC0603FR-0739KL	603-RC0603FR-0739KL	\$ 0.10	\$ 0.10
12	R2, R3, R5, R6, R7, R10, R11, R12, R13, R14, R19, R20	100k	Resistor	1%	0603	Yageo	RC0603FR-07100KL	603-RC0603FR-07100KL	\$ 0.02	\$ 0.25
2	R22, R23	1M	Resistor	1%	0603	Yageo	AC0603FR-131ML	603-AC0603FR-131ML	\$ 0.10	\$ 0.20
6	C5, C6, C7, C8, C9, C10	100nF	Capacitor	10%	0603	AVX	06033C104KAT4A	581-06033C104KAT4A	\$ 0.09	\$ 0.54
3	C1, C2, C11	10uF	Pol. Capacitor	20%	S-V	Panasonic	EEE-1VA100WR	667-EEE-1VA100WR	\$ 0.24	\$ 0.72
1	JP1	10 Pos. 5X2	Header			Amphenol FCI	10129381-910001BLF	649-1012938191001BLF	\$ 0.26	\$ 0.26
8	J1, J2, J3, J4, J5, J6, J7, J8	Thonkiconn	Jack			Thonk	PJ398SM	Don't Forget Nuts	\$ 0.59	\$ 4.72
2	U\$1, U\$2	5 Position	Rotary Switch		D shaft	Alps	SRBV151102	688-SRBV151102	\$ 7.17	\$14.34
2			Knob		D shaft	Thonk	3PS - Large Pointer	(D Shaft) - Rogan PT	\$ 2.40	\$ 4.80
1			PCB			SoundFlask	synthCube		\$ 7.00	\$ 7.00
1			Panel			SoundFlask	synthCube		\$ 7.00	\$ 7.00

* R31 text is missing on PCB. R31 is located between IC1 and R12. The letter 'R' appears next to the placement.

Total - \$51.32