

Circuits Kit Component List – Fall 2020

Last updated: 24 Aug 2020

Item	Vendor	Link	Unit price	Qty
Feather 32u4 BLE	Adafruit	https://www.adafruit.com/product/3379	32.00	1
Lipo battery, 400 mAh	Adafruit	https://www.adafruit.com/product/3898	7.00	1
Lipo charger	Adafruit	https://www.adafruit.com/product/4410	6.00	1
USB A-C adapter	Adafruit	https://www.adafruit.com/product/4175	3.00	1
micro - USB A cable	Adafruit	https://www.adafruit.com/product/2185	5.00	1
Breadboard + wire kit	Adafruit	https://www.adafruit.com/product/3314	10.00	1
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INA126 instr. amp	Digikey	https://www.digikey.com/product-	3.15	1
TLV2472 op-amp (dual)	Digikey	https://www.digikey.com/product-	2.70	1
TLV2474 op-amp	Digikey	https://www.digikey.com/product-	3.40	1
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MOSFET (n-chan)	Digikey	https://www.digikey.com/product-	0.78	2
Photodiode (BPW34)	Digikey	https://www.digikey.com/product-	1.21	1
Red LED	Digikey	https://www.digikey.com/product-	0.49	1
IR LED	Digikey	https://www.digikey.com/product-	0.48	1
Blue LED	Digikey	https://www.digikey.com/product-	0.16	1
Thermistor	Digikey	https://www.digikey.com/product-	0.69	1
Diode, general purpose	Digikey	https://www.digikey.com/product-	0.10	1
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Flex resistor	Sparkfun	https://www.sparkfun.com/products/10264	9.00	1
CdS photoresistor	Adafruit		0.95	1

Resistors (Ohms)	Qty
68R	3
1k	4
2.7k	2
5k	4
5.6k	2
10k	4
22k	3
33k	2
1M	4
10k pot	2

Caps (F)	Qty
0.1n	2
5.6n	1
10n	1
22n	2
47n	2
100n	4
1u	2
3.3u	2
33u	2



Red LED
(640 nm)



IR LED
(940 nm)



Diode
(1N914)



Photodiode
(BPW34)



MOSFET
(n-channel)



Thermistor
(10K)



Flex Resistor



(10K Ω) potentiometer



Piezo
Buzzer

