



Comment	Description	Designator	Footprint	LibRef	Manufacturer 1	Manufacturer Part Number 1	Quantity	Supplier 1	Supplier Currency	Supplier Order Qty 1	Supplier Part Number 1	Supplier Stock 1	Supplier Subtotal	Supplier Unit Price
18650	HOLDER FOR 18650 BATTERY	Bat1, Bat2, Bat3	18650 Holder	Battery	Keystone Electronics	1043P	3	Digi-Key	USD	3	36-1043P-ND	533	6.93	2.31
Adafruit Ultimate GPS	Adafruit Ultimate GPS	BRD4	GPS	GPS - Adafruit	Adafruit Industries LLC	746	1	Digi-Key	USD	1	1528-1153-ND	32	39.95	39.95
	1000pF ±10% 50V X7R Ceramic Capacitor -55°C ~ 125°C Surface Mount, MLCC 0603 (1608 Metric)													
1000pF	0.063" L x 0.031" W (1.60mm x 0.80mm) 0.10µF ±10% 50V	C10, C12	0603	Cap	Murata Electronics North America	GRM188R71H102K A01D	2	Digi-Key	USD	2	490-1494-1-ND	999385	0.2	0.1
	X7R Ceramic Capacitor -55°C ~ 125°C Surface Mount, MLCC 0603 (1608 Metric)													
0.1uF	0.063" L x 0.031" W (1.60mm x 0.80mm)	C11, C13, C18, C22	0603	Cap	Murata Electronics North America Samsung Electro-	GRM188R71H104K A93D	4	Digi-Key	USD	4	490-1519-1-ND	5027036	0.4	0.1
15nF	CAP CER 0.015UF 50V X7R 0603	C14	0603	Cap	Mechanics America, Inc.	CL10B153KB8SFNC	1	Digi-Key	USD	1	1276-1967-1-ND	92863	0.1	0.1
	0.22µF ±10% 25V X7R Ceramic Capacitor -55°C ~ 125°C Surface Mount, MLCC 0603 (1608 Metric) 0.063°L x 0.031°W				Murata Electronics	GRM188R71E224K								
0.22uF	(1.60mm x 0.80mm)	C15	0603	Cap	North America Panasonic	A88D	1	Digi-Key	USD	1	490-3290-1-ND	444462	0.14	0.14
330uF	CAP ALUM 330UF 20% 50V RADIAL	C16	Elec. Cap 5 x 10mm	SMD Elec	Electronic Components	ECA-1HM331	1	Digi-Key	USD	1	P5184-ND	24594	0.48	0.48
1.0uF	1µF ± 10% 10V X5R Ceramic Capacitor- 55°C ~ 85°C Surface Mount, MLCC 0603 (1608 Metric) 0.063°L x 0.031° W (1.60mm x 0.80mm)	C17	0603	Сар	Murata Electronics North America	GRM188R61A105K A61D	1	Digi-Key	USD	1	490-1543-1-ND	1718633	0.1	0.1
	4.7µF ±10% 50V X7R Ceramic Capacitor -55°C ~													
4.7uF	125°C Surface Mount, MLCC 1206	C19, C23, C24	1206	Cap	Samsung Electro- Mechanics America, Inc.	CL31B475KBHNNN E	3	Digi-Key	USD	3	1276-2789-1-ND	228894	1.02	0.34
	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0603													
4700pF	4700pF 50volts X7R 10%	C20	0603	Cap	Murata Electronics North America	GRM188R71H472K A01D	1	Digi-Key	USD	1	490-1506-1-ND	324057	0.1	0.1
	0.47µF ±10% 25V X7R Ceramic Capacitor -55°C ~ 125°C Surface Mount, MLCC 0603 (1608 Metric) 0.042°L × 0.021° W				Murata Electronics	GRM188R71E474K								
0.47uF	0.063" L x 0.031" W (1.60mm x 0.80mm)	C21	0603	Cap	North America	A12D	1	Digi-Key	USD	1	490-3291-1-ND	362382	0.17	0.17
12 pF	CAP CER 12PF 50V NP0 0603	C25, C26	0603	Cap	Murata Electronics North America	GRM1885C1H120J A01D	2	Digi-Key	USD	2	490-1405-1-ND	75987	0.2	0.1
	10µF -20%, +80% 16V Y5V (F) Ceramic Capacitor - 30°C ~ 85°C Surface Mount,					CC1206ZKY5V7BB1								
10uF	MLCC 120 DIODE SCHOTTKY	C28, C29, C30, C32		Cap	Yageo Diodes	06	4	Digi-Key	USD	4	311-1376-1-ND	99452	0.88	0.22
B360A-13-F Solder Jumper	60V 3A SMA DNP	JP1, JP2	SMA with A and K Solder Jumper	Schottky Diode Solder Jumper	Incorporated	B360A-13-F	1 2	Digi-Key	USD	1	B360A-FDICT-ND	134402	0.43	0.43
8.2 uH	FIXED IND 8.2UH 5.05A 28.6 MOHM	1.3	Inductor - 1045	Inductor	Wurth Electronics Inc	7447797820	1	Digi-Key	USD	1	732-2213-1-ND	1584	3.4	3.4
10k NTC	THERMISTOR 10K OHM NTC 0603 SMD	NTC1	0603	NTC	Murata Electronics North America	NCP18XH103F03R	,	Digi-Key	USD	,	490-4800-1-ND	137416	0.23	0.23
	Header, 6-Pin	P7		Header 6	North America	В	1	Liigi-key	USD		490-4800-1-ND	13/416	0.23	0.23
750mA	750MA SMD 2920	PTC2	2920	PTC	Littelfuse Inc.	2920L075/60MR	1	Digi-Key	USD	1	F5633CT-ND	14686	0.72	0.72
IRF 9328	MOSFET P-CH 30V 12A 8-SOIC	Q1, Q2	SOIC-8	IRF 9328 P-FET	Infineon Technologies Americas Corp.	IRF9328PBF	2	Digi-Key	USD	2	IRF9328PBF-ND	2091	1.42	0.71
	10k Ohm ±1% 0.1W, 1/10W Surface Mount Resistor Thick Film	D11 D12 D14			Panasonic Electronic			,						
10k	±100ppm/°C 0603	R11, R13, R14, R15, R17, R18	0603	Chip Resistor	Components	ERJ-3EKF1002V	6	Digi-Key	USD	6	P10.0KHCT-ND	9095954	0.6	0.1
4.7k	4.7k Ohm ±1% 0.1W, 1/10W Surface Mount Resistor Thick Film ±100ppm/°C 0603	R12, R21, R22, R26	0603	Chip Resistor	Panasonic Electronic Components	ERJ-3EKF4701V	4	Digi-Key	USD	4	P4:70KHCT-ND	2991220	0.4	0.1
0.04	0.04 Ohm ±1% TW Surface Mount Resistor Metal Element ±75ppm/°C 2818	R16	2818	Chip Resistor	Vishay Dale	WSHM2818R0400F	,	Digi-Key	USD	,	541-2632-1-ND	3496	1.35	1.35
	32.4k Ohm +1%			,	,			,				2470	1.33	1.30
	0.1W, 1/10W Surface Mount				Panasonic Electronic									
32.4k	Resistor Thick Film ±100ppm/°C 0603 RES SMD 309K	R19, R24	0603	Chip Resistor	Components Panasonic	ERJ-3EKF3242V	2	Digi-Key	USD	2	P32.4KHCT-ND	136805	0.2	0.1
309k	OHM 1% 1/10W 0603	R20	0603	Chip Resistor	Electronic Components	ERJ-3EKF3093V	1	Digi-Key	USD	1	P309KHCT-ND	103006	0.1	0.1
6.04k	6.04k Ohm ±1% 0.1W, 1/10W Surface Mount Resistor Thick Film ±100ppm/°C 0603	077	0603	Chip Resistor	Stackpole Electronics Inc.	RMCF0603FT6K04	,	Digi-Key	USD	,	RMCF0603FT6K04C T-ND	18907	0.1	0.1
	0.025 Ohm ±1% 7W Surface Mount			,		10004		, ,				10,07	3.1	0.1
0.025	Resistor Metal Element ±75ppm/°C 2818	R25	2818	Chip Resistor	Vishay Dale	WSHM2818R0250F EA		Digi-Key	USD		541-2629-1-ND	3500	1.35	1.35
	IC ACCELEROMETER				Analog Devices						ADXL001-2508EZ-			
ADXL001-250 ADXL375	250G 8CLCC +/- 200G IC ACCEL SPI/I2C 3AX 14LGA	U7, U9	ADI-E-8-1_V ADI-CC-14-1 V	AD22279-A ADXL343BCCZ	Inc. Analog Devices	ADXL001-250BEZ ADXL375BCCZ-RL7		Digi-Key Digi-Key	USD		ND ADXL375BCCZ- RL7CT-ND	43 3085	64.62	32.31
ADXL375 BNO055	IMUs - Inertial Measurement Units Absolute Orientation 9-Axis	U10		ADXL343BCCZ BNO055			1		USD		262-BNO055	3085 5803		
LACUS	Sensor 4 A, High Efficiency	U 10	Aut devum	e-e-cop	Bosch Sensortec	BNO055	1	Mouser	U3D	1	auz-en/UU55	5803	10.99	10.99
LTC4006EGN-2	Efficiency, Standalone Li-Ion Battery Charger, 6 to 28 V Vin, 16-pin SOP (GN-16), -40 to 85 degC	U11	LT-GN-16_N	LTC4006EGN-2	Linear Technology	LTC4006EGN- 2#PBF	1	Digi-Key	usp	1	LTC4006EGN- 2#PBF-ND	3208	7.16	7.16
	MOD ACCELEROMETER		LGA 4x4x1 mm 24-		37									
LSM9DS0 IMU	3D 24LGA Self-Protected Low Side Driver with Temperature and Current Limit, 4-	U12	lead	LSM9DS0 IMU	STMicroelectronics	LSM9DS0TR	1	Digi-Key	USD	1	497-13902-1-ND	10325	7.35	7.35
NCV8403ASTT1G	Pin SOT-223, Pb- Free, Tape and Reel	U13	ONSC-SOT-223-4- 318E-04_V	NCV8403ASTT1G	ON Semiconductor	NCV8403ASTT1G		Digi-Key	USD		NCV8403ASTT1GO SCT-ND	112	1.29	1.29
NC YOULASIIIG	Crystal 32.7680kHz 20ppm 12.5pF 70 kOhm -40°C - 85°C	013	_ 13E-04_V	VOHUSASTITIS			1	orgi-Ney	u	1	Jac I-MD	112	1.29	1.29
32.768KHz	Surface Mount 2- SMD	ХI	XTAL 2 pad	Crystal Oscillator	ECS Inc.	ECS327-12.5-39- TR	1	Digi-Key	USD	1	XC1658CT-ND	57426	0.87	0.87
SMA6J	TVS DIODE 24VWM	72	SMA	Zener - Bidirection	Micro Commercial (	SMA6J24CA-TP	1	Digi-Key	USD	1	SMA6J24CA-TPMSC	4951	0.46	0.46