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VVCIO		giile	

Bill of Materials

Item Number	Quantity	Designator		Footprint	Description	LibRef		Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplie Order Qt	er Supplier ty 1	Subtotal	Manufacturer 1	Manufacturer Part Number 1	#Column Name Error:Supplier 2	#Column Name Error:Supplier Part Number 2	#Column Name Error:Supplier Unit Price 2		#Column Name Error:Supplier Subtotal 2	#Column Name Error:Manufacturer 2	#Column Name Error: Manufacturer Part Number 2	#Column Name Error:Library Name	#Column Name Error:Library Reference
	1	B1	3.7v 110mAh	LIPO_110mAh	400mAh_Lipo_battery	LIPO_400mAh_Sparkfun	LIPO_400mAh_Sparkfun	SparkFun	10718					Supplier disabled	Supplier disabled									
	1	C1	0.01uF	C1608N	CAP CER 10000PF 50V 5% X7R 0603	C103_0603_X7R_50V0_5% _Kernet								Kemet	C0603C103J5RACTU									
	1	C2	0.10uF	C1005N	CAP CER 0.1UF 16V 10% X7R 0402		C104_0402_X7R_16V0_10%_Kernet	Digi-Key	399-3521-1-ND	\$ 0.11	00 3	s	0.3300	Kernet	C0402C104K4RACTU									
	4	C5, C8, C9, C10	0.01uF	C1005N	CAP CER 10000PF 25V 5% X7R 0402	C103_0402_X7R_25.0V_5% Kernet	C103_0402_X7R_25.0V_5%_Kernet	Digi-Key	399-1279-1-ND	\$ 0.03	60 12	s	0.4320	Kernet	C0402C103J3RACTU									
	2	C6, C7	4.7uF	C1608L	CAP CER 4.7UF 6.3V 20% X5R 0603	C475-0603-X5R-20%	C475-0603-X5R-20%	Digi-Key	445-1417-1-ND	\$ 0.17	00 6	s	1.0200	TDK Corporation	C1608X5R0J475M080AB									
	2	C11, C12	12pF	C1608L	CAP CER 12PF 50V 5% C0G 0603	C120-0603-C0G-NPO- 5% TDK	C120-0603-COG-NPO-5%	Digi-Key	445-1270-1-ND	\$ 0.03	00 10	s	0.3000	TDK Corporation	C1608C0G1H120J080AA									
	1	D1	GRN	LEDCP2015X08L	LED THIN 565NM GRN DIFF 0805 SMD		LED-GRN-0805-LUMEX-SML- LXT0805SGW	Digi-Key	67-1553-1-ND	\$ 0.47	00 3	s	1.4100	Lumex Opto/Components Inc.	SML-LXT0805GW-TR									
	1	D2		SOD123		DIODE-1N4148-100v-150MA	1n4148	Digl-Key	1N4148WTPMSCT-ND	\$ 0.11	00 3	s	0.3300	Micro Commercial Co	1N4148W-TP									
	1	D4		SOT23_95P237x111- 3N	TVS DIODE 17VWM 28VC SOT23	TVS_MMBZ20VALT1G_OnS emi	TVS_MMBZ20VALT1G_OnSemi	Digi-Key	MMBZ20VALT1GOSCT-ND	\$ 0.22	00 3	s	0.6600	ON Semiconductor	MMBZ20VALT1G									
	3	D5, D6, D7		DIODE-USC	DIODE SCHOTTKY30V 800MA USC	DIODE-CUS08F30-30v- 800MA-USC-Toshiba		Digi-Key	CUS08F30H3FCT-ND	S 0.34	00 9	s	3.0600	Toshiba Semiconductor and Storage	CUS08F30.H3F									
	1		MICRO LISE AR	CONN USB_Micro		CONN MICRO USB AB		Digi-Key	H11635CT-ND	S 1.02	00 3	8	3.0600		ZX62-AB-5PA(11)									
	1	.12		4x2 50mil header_FCI	CONN HEADER 8POS DL UNSHRD	HEADER 4x2 50mil FCI		Digi-key	609-3694-1-ND	\$ 0.70		8	2.1000		20021121-00008C4LF									
	1	J3		CONN_2P_SINGLE_10	SMD	CONN 2P_Header		Digi-Key	SAM1035-50-ND	\$ 2.18		s			TSW-150-07-T-S									
	3	R1, R2, R6	10K	C1005N	RES 10K OHM 1/10W 5% 0402 SMD	R103_0402_5%_Panasonic		Digl-Key	P10KJCT-ND	\$ 0.01	06 50	s	0.5300	Panasonic Electronic Components	ERJ-2GEJ103X									
	2	R3, R5	4.70K	C1005N	RES 4.7K OHM 1/10W 1% 0402 SMD	R472-0402-1%	R472-0402-1%	Digl-Key	P4.70KLCT-ND	\$ 0.10	00 6	s	0.6000	Panasonic Electronic Components	ERJ-2RKF4701X									
	1	R4	47K	C1005L	DEPRECATED - RES 47K OHM 1/10W 5% 0402 SMD	R473-0402-5%	R473-0402-5%	Digi-Key	P47KJCT-ND	\$ 0.10	00 3	s	0.3000	Panasonic Electronic Components	ERJ-2GEJ473X									
	1	R7	330	C1005L		R331-0402-5%	R331-0402-5%	Digl-Key	P3.30KLCT-ND	\$ 0.10	00 3	s	0.3000		ERJ-2RKF3301X									
	1	R8	1.24M	C1608N	RES SMD 4.7M OHM 5% 1/10W 0603	R4.7M-0603-5%-Yageo	1.24M	Digi-Key	311-4.7MGRCT-ND	\$ 0.01	10 10	s		Yageo	RC0603JR-074M7L									
	1	R9	12k	C1608N	RES SMD 12K OHM 5% 1/10W 0603	R123_0603_5%_Panasonic	R123_0603_5%_Panasonic							Panasonic Electronic Components	ERJ-3GEYJ123V									
	- 1	R10	64.9K	C1608L	RES SMD 64.9 OHM 1% 1/10W 0603	R643R9-0603-1%_Yageo		Digi-key	311-64.9HRCT-ND	\$ 0.01		s	0.1400		RC0603FR-0764R9L									
	1	SC1	330MF	SUPCAP_330MF	CAP 330MF -20% +80% 3.3V SMD SWITCH TACTILE SPST-NO 0.05A	SUPCAP_330MF_SMD		Digi-Key	604-1160-1-ND	\$ 2.50			7.5600	Eina America TE Connectivity Alcoswitch	DSK-3R3H334T-HL									
	1	SW1, SW2, SW3		SPST_NO_6x3.5 28M1_N	24V 8-bit AVR Microcontroller, 16KB Flash, 512 Bytes EEPROM, 1KB SRAM, 28- pin VOFN, Industrial Grade (-40°C to 85°C) I2C Serial Real-Time Clock, 8-Pin	ATmega168A-MMH	ATmega168A-MMH	Digi-key	450-2146-1-ND	\$ 0.33	00 9	3	2.9700	Switches	FSM2JMTR									
	1	U2		U8+1_N	uSOP, -40 to 85 degC, Pb-Free	DS1337U+	DS1337U+																	
	1	U3		MAA05A_N	2.4V, 10µA Temperature Sensor, 5-pin SC-70 Micro SMD, Pb-Free	LM20CIM7/NOPB	LM20CM7/NOPB																	
	1	U4		DFN-MC8	Miniature Single-Cell, Fully Integrated Li- lon, Li-Polymer Charge Management Controller, 4.2V, 8-Pin DFN, Industrial Temperature, Tape and Reel	MCP73831T-2ATIMC	MCP73831T-2ATIMC	Digl-Key	MCP73831T-2ATIMC-ND	\$ 0.45	00 3300	S 1	,485.0000	Microchip Technology	MCP73831T-2ATIMC									
	1	U5		QFN50P350X250X100 _HS-17N	IC 8-BIT SHIFT REGISTER 16-DIP	IC_LS74HC596_TI_QFN	IC_LS74HC595_TI_QFN	Digi-Key	568-2719-1-ND	\$ 0.47	00 3	s	1.4100	Texas Instruments	SN74HC595N									
	1	U6		PW8_N	Dual In / Single Out Autoswitching Power Mux, 2.8 to 5.5 V, -40 to 85 degC, 8-pin TSSOP (PW), Green (RoHS & no Sb/Br)	TPS2113APWR	TPS2113APWR	Digi-Key	296-16938-1-ND	\$ 2.15	00 3	s	6.4500	Texas Instruments	TPS2113APWR									
	1	yı	8MHz	NDK_8MHZ_CRYSTAL	Crystal 8.0000MHz 50ppm 8pF 500 Ohm -40°C - 150°C AEC-Q200 Surface Mount 2-SMD	_HUK		Digi-Key	644-1178-1-ND	\$ 0.90	00 3	s	2.7000	NDK	NX3225GD-8MHZ-STD-CRA 3									
	1	Y2	32.768KHz	ABS05	kOhm -40°C - 85°C Surface Mount 2- SMD	CRYSTAL-32.768KHZ_ABS- Micro	32.768KHz	Digi-Key	535-11899-1-ND	\$ 1.46	00 3	s	4.3800	Abracon LLC	ABS05-32.768KHZ-T									
,	42	•								\$ 14.00	16	S 1	,531.6920			•	•	s -		\$.		•	*	
Approved		Note:																						