



Title		
Size A1	Number	Revision
Date: 2017/5/16	Shout of	
File: C:\Users\jfw\Shout_SchDoc	Drawn By:	

# Bill of Materials

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Source Data From: F#.PrjPCB  
Project: F#.PrjPCB  
Variant: None

Creation Date: 2017/6/16 8:21:42  
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Footprint	Comment	LibRef	Designator	Description	Quantity
ABSM-1574 0402	JUSB3.3 Buzzer	JUSB3.3			1
		Buzzer	B1	Magnetic Transducer Buzzer	1
		Cap Semi	C1, C2, C3, C4, C5, C7, C9, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C24, C25, C26, C27, C28, C30, C31, C32, C33, C34, C39, C42, C43, C45, C46, C47, C48, C49, C50, CD1, CD2, CD3, CF1, CF2, CST, CST1, CST3, CU1	Capacitor (Semiconductor SIM Model)	46
CAPR5-4X5	Cap2	Cap2	C6, C23, C29, C35, C36, C37, C38, C40, C41, C44, CU2	Capacitor	11
		LCD	INTERNAL_CO CON20		1
DO-41	Diode	N20	D1, D2, D12, D13, D14, LD2, LED	1 Amp General Purpose Rectifier	7
DO-41		Diode 1N4001	D3, D4, D5, D6, D7, D8, D9, D10, D11, D15, D16	1 Amp General Purpose Rectifier	11
DO-41		Diode 1N4001	D17	1 Amp General Purpose Rectifier	1
AXIAL-0.3	IN4148#	Res1	F1, F2, JB, JB0, JSEEP4, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R41, R42, R43, R44, R48, R49, R50, R56, R57,	Resistor	86
HDR2X5	Header 5X2	Header 5X2	ISP, ISP51	Header, 5-Pin, Dual row	2
		INTERNAL_CO N20	J3		1
SSOP16	Res Pack4	CON10	J4		1
		Res Pack4	JRSP, R46 AND R47, RJO1 AND RJO2	Isolated Resistor Network	3
HDR1X5	Header 5	Header 5	JSP	Header, 5-Pin	1
0402-A	Inductor	Inductor	L1, L2, L3	Inductor	3
HDR1X7	Header 7	Header 7	POWER	Header, 7-Pin	1
SOT-23B	QNPN	QNPN	Q1	NPN Bipolar Transistor	1
VR5	RPot	RPot	R40, RW1, RW2	Potentiometer	3
44A	SDCard1	SDCard1	SDcard		1
	RELAY	RELAY	T1, T2, T3, T4, T5, T6, T7, T8		8
N016	ATmega32-16AC	ATmega32-16AC	U1	8-Bit AVR Microcontroller with 32K Bytes of In-System Programmable Flash Memory	1
	DC-DC	DC-DC	U2, U8, U13		3
751D-03	SN74LS595N	SN74LS595N	U3, U6	8-Bit Shift Register with Output Latch	2
	AT89S52	AT89S52	U7		1
D014	SN74LS541DW	SN74LS541DW	U9, U10, U11	Octal Buffer/Line Driver with 3-State Outputs	3
	LM324ADR	LM324ADR	U12	Quadruple Operational Amplifier	1
H03A	LM78L12ACH	LM78L12ACH	U14, U15	3-Terminal Positive Regulator	2
Q-8	ADS7844E	ADS7844E	U16		1
	OP77BZ	OP77BZ	U17 A, U17 B, U18 A, U18 B, U24 A, U24 B	Ultra-Low Offset Voltage Operational Amplifier	6
751A-02	LM324AD	LM324AD	U20	Quad Low-Power Operational Amplifier	1
	NE5532P	NE5532P	U21, U22	Dual Low-Noise Operational Amplifier	2
P008	MAX471	MAX471	U26		1
	UD1	UD1	UD1		1
R38	USB	USB	USB		1
	L1089-3.3	L1089-3.3	UU1		1
XTAL	XTAL	XTAL	Y1, Y2, Y3	Crystal Oscillator	3
					220

Approved	Notes