



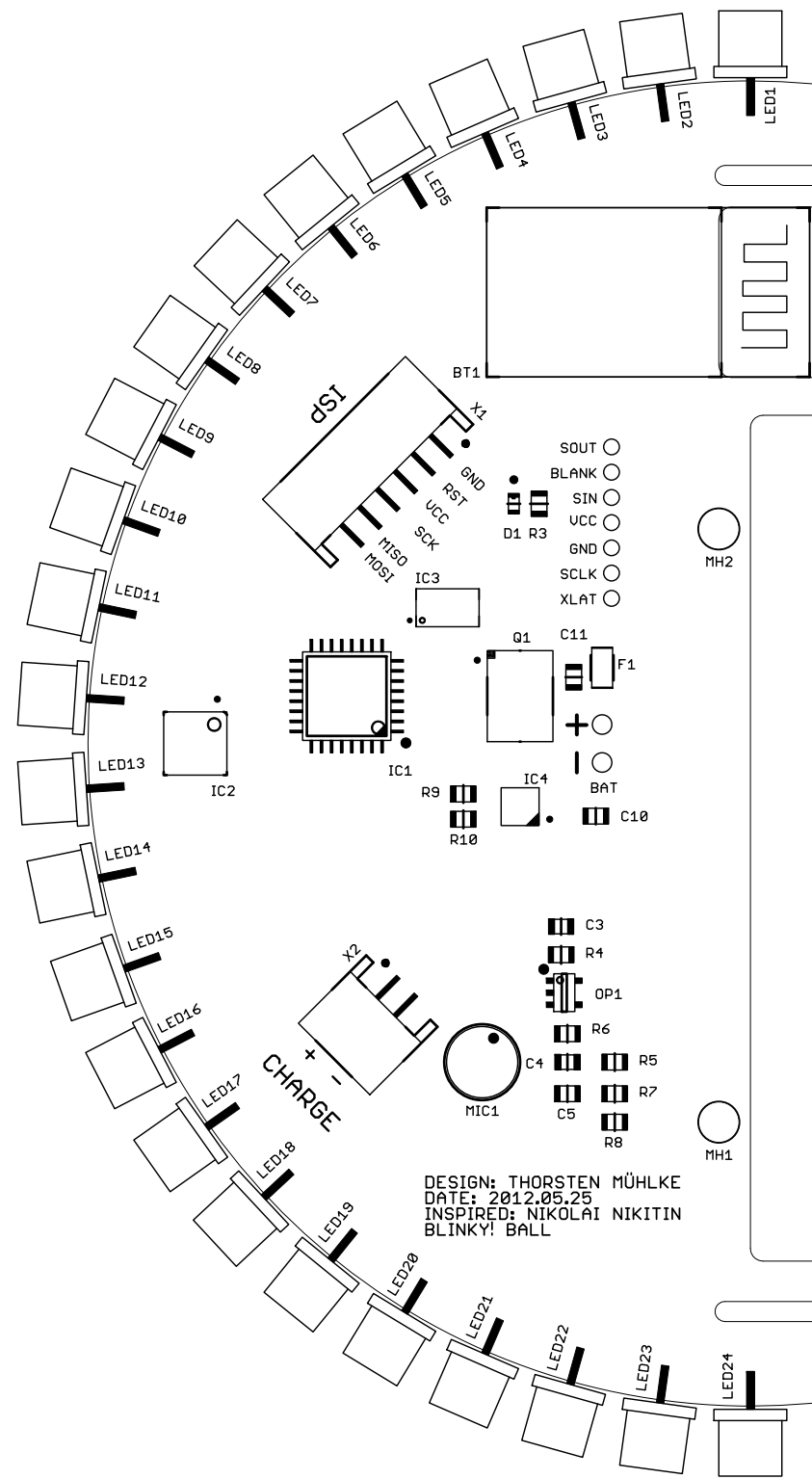
## Parts List for

C:/Users/tmuehlke.LISA/Documents/My Project/LBBledBlinkyBall/LBB01v00/LBB01v00.sch

## Parts Listing

Qty.	Name	Value	Package	Description	Library
1	BT1	RN-42	RN-42	RN-42 Class 2 Bluetooth Module, order code: RN-42	Converter Roving Networks
2	C1 C2	18P	CAPC2012X135N	Multilayer Ceramic Capacitor 0805, NP0, 5%, 50V, order code: CC0805J*NP09BN180	Capacitor Yageo CC0805 NP0 5pph 50V
1	C3	100P	CAPC2012X135N	Multilayer Ceramic Capacitor 0805, NP0, 5%, 50V, order code: CC0805J*NP09BN101	Capacitor Yageo CC0805 NP0 5pph 50V
5	C4 C6 C7 C8 C9	100N	CAPC2012X135N	Multilayer Ceramic Capacitor 0805, X7R, 5%, 50V, order code: 08052R104J9B	Capacitor Yageo 0805 Class2 X7R 5pph 50V
1	C5	1,0UF	CAPC2012X125N	High Value Multilayer Ceramic Capacitor, 1,0µF, 25V, +/-10%, order code: TMK212BJ105KG	Capacitor Taiyo Yuden Typ 212 25V 10pph
2	C10 C11	4,7UF	CAPC2012X125N	High Value Multilayer Ceramic Capacitor, 4,7µF, 16V, +/-10%, order code: EMK212BJ475KG	Capacitor Taiyo Yuden Typ 212 16V 10pph
7	CP1 CP2 CP3 CP4 CP5 CP6 CP7	AWG24	PAD51P	Wire,24 guage;0.511mm diameter	PTH-Wire
2	CP8 CP9	AWG20	PAD81P	Wire,20 guage;0.810mm diameter	PTH-Wire
1	D1	KP-1608QBC-D	LED-KP-1608QBC-D	470nm, Blue, Clear Typ, Landpattern LEDC1608X100N, order code: KP-1608QBC-D	Light Emitting Diode Kingbright SMD
1	F1	1206L025	FUSE-RESC3216X100N	Polyfuse I-hold=0,250A; I-trip=0,50A; 16V, order code: 1206L025	Fuse Littlefuse 1206L
1	IC1	ATMEGA328P-AU	QFP80P900X900X120-32N	8-Bit Microcontroller With 32kB In-System Programmable Flash, order code: ATmega328P-PU	Microcontroller Atmel
1	IC2	TLC5947RHB	QFN50P500X500X90-33AN	24-Channel, 12-Bit PWM LED Driver with Internal Oscillator, order code: TLC5947RHB	Linear Texas Instruments
1	IC3	MMA7455L	LGA-14	±2g/±4g/±8g Three Axis Low-g Digital Output Accelerometer, order code: MMA7455L	Linear Freescale Semiconductor
1	IC4	MCP73123-22S-MF	SON50P300X300X100-11N	Lithium Iron Phosphate (LiFePO4) Battery Charge Management Controller with Input Overvoltage Protection, order code: MCP73123-22S/MF	Regulator Microchip
4	JMP1 JMP2 JMP3 JMP4	SINGLE-JMP	SINGLE-JMP	SMT OR Solder Jumper	SMT Jumper Link -0R
24	LED1 LED2 LED3 LED4 LED5 LED6 LED7 LED8 LED9 LED10 LED11 LED12 LED13 LED14 LED15 LED16 LED17 LED18 LED19 LED20 LED21 LED22 LED23 LED24	OSM5DK57E1A	OSM5DK57E1A	5mm Flat Warm White LED, order code: OSM5DK57E1A	Light Emitting Diode OptoSupply
2	MH1 MH2	MTG320-TOOLING	MTG320-TOOLING	Standard Tooling Hole	Non-Plated Through Mounting Holes for Metric Based Hardware
1	MIC1	EMY-63MP	MIC-EMY-63MP	Elektret Microphone 1,5V...10V, order code: EMY-63M/P	Buzzer Ekulit
1	OP1	OPA344NA	SOT95P284X125-5N	Low Power, Single-Supply, Rail to Rail Operational Amplifier, order code: OPA344NA	Linear Texas Instruments
1	PAD1	SOUT	TP_100X200	SMT-Pad 1,0mm x 2,0mm	Pad Surface Mount
1	PAD2	BLANK	TP_100X200	SMT-Pad 1,0mm x 2,0mm	Pad Surface Mount
1	PAD3	SIN	TP_100X200	SMT-Pad 1,0mm x 2,0mm	Pad Surface Mount
1	PAD4	VCC	TP_100X200	SMT-Pad 1,0mm x 2,0mm	Pad Surface Mount
1	PAD5	SCLK	TP_100X200	SMT-Pad 1,0mm x 2,0mm	Pad Surface Mount
1	PAD6	GND	TP_100X200	SMT-Pad 1,0mm x 2,0mm	Pad Surface Mount
1	PAD7	XLAT	TP_100X200	SMT-Pad 1,0mm x 2,0mm	Pad Surface Mount
1	Q1	16.000MHZ	OSCC500X700X130-4N	16.000MHz Ceramic SMD Microprocessor Crystal 7.0 x 5.0 x 1.3mm, order code: ABMM-16.000MHZ-B2-T	Crystal Abracon Corporation ABMM
1	R1	20K	RESC2012X50N	Chip resistor RC0805, 1%, order code: RC0805FR-0720K	Resistor Yageo RC0805 1pph
1	R2	1K	RESCAXS80P160X320X50-8N	Chip Resistor Array CAY16, 5%, 4 Isolated Resistors, Convex, order code: CAY16-102J4	Resistor Bourns CAY16 5pph 4 Isolated
1	R3	220R	RESC2012X50N	Chip resistor RC0805, 1%, order code: RC0805FR-07220R	Resistor Yageo RC0805 1pph
1	R4	100K	RESC2012X50N	Chip resistor RC0805, 1%, order code: RC0805FR-07100K	Resistor Yageo RC0805 1pph
1	R5	2K2	RESC2012X50N	Chip resistor RC0805, 1%, order code: RC0805FR-072K2	Resistor Yageo RC0805 1pph
2	R6 R9	1K	RESC2012X50N	Chip resistor RC0805, 1%, order code: RC0805FR-071K	Resistor Yageo RC0805 1pph
2	R7 R8	10K	RESC2012X50N	Chip resistor RC0805, 1%, order code: RC0805FR-0710K	Resistor Yageo RC0805 1pph
1	R10	1K5	RESC2012X50N	Chip resistor RC0805, 1%, order code: RC0805FR-071K5	Resistor Yageo RC0805 1pph
2	S1 S2	DTSM-61N-V	SW-DTSM-61N-V	Tact Switch, h = 4,3 mm, order code: DTSM-61N-V	Switch Diptronics
1	X1	S6B-PH-SM4-TB	S6B-PH-SM4-TB	Disconnectable Crimp style connector, Typ SM4, 06pol, Side entry type, order code: S6B-PH-SM4-TB	Connector JST PH-SM4
1	X2	S2B-PH-SM4-TB	S2B-PH-SM4-TB	Disconnectable Crimp style connector, Typ SM4, 02pol, Side entry type, order code: S2B-PH-SM4-TB	Connector JST PH-SM4

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DESIGN: THORSTEN MÜHLKE  
 DATE: 2012.05.25  
 INSPIRED: NIKOLAI NIKITIN  
 BLINKY! BALL

