Lilibeaaca	Controller Doll						9 1
Component	Description	Designator (Quantity	Package / Case	Digikey Part Number	Manufacturer Part Number	Manufacturer Part Number
BU2032 Battery		BAT1	1		BU2032-1-HD-G	MPD (Memory Protection Devices)	BU2032-1-HD-G
BLUE LED	SMD mono-color Chip LED, WL-SMCW, Red	BEAT1	1	0805	732-4982-1-ND	Wurth Electronics Inc.	150080BS75000
100nF	Chip Capacitor, 100 nF, +/- 10%, 50 V, -55 to 125 degC,	C22, C23, C24, C25	4	0805	732-13195-1-ND	Wurth Electronics Inc.	885382207007
	0805, RoHS, Tape and Reel						
100nF	Chip Capacitor, 100 nF, +/- 10%, 50 V, -55 to 125 degC, 0603	C1, C2, C3, C4, C5, C6, C11, C14, C16, C17, C20,	34	0603	732-8013-1-ND	Wurth Electronics Inc.	885012206095
	(1608 Metric), RoHS, Tape and Reel	C21, C26, C27, C28, C32, C34, C35, C36, C38, C39,					
		C44, C45, C46, C49, C50, C53, C56, C57, C58, C60,					
	01: 0 17 F ./ 000/ 1001/ 551 1051 0	C63, C66, C64, C65		4040/000514 1 :)	1070 0170 1 ND		OLO 4 D 475 KD I INITALE
4.7uF	Chip Capacitor, 4.7 uF, +/- 20%, 100 V, -55 to 125 degC,	C7, C8	2	1210(3225Metric)	1276-3179-1-ND	Samsung Electro-Mechanics	CL31B475KBHNFNE
22uF	1210 (3225 Metric), RoHS, Tape and Reel Chip Capacitor, 4.7 uF, +/- 20%, 100 V, -55 to 125 degC,	C9, C10	2	1210(3225Metric)	1276-1855-1-ND	0 51 1 11 1 1	CL32B226KOJNNNE
22UF	1210 (3225 Metric), RoHS, Tape and Reel	C9, C10	2	1210(3225Wetric)	1276-1000-1-ND	Samsung Electro-Mechanics	CL32B220KOJININE
10nF	12 TO (3223 Metric), Rons, Tape and Reel	C12, C19, C37, C40, C41, C48, C51, C52, C61	9	0603	732-8007-1-ND	Wurth Electronics Inc.	885012206089
4.7pF		C12, C19, C37, C40, C41, C46, C51, C52, C61	4	603	732-7772-1-ND	Wurth Electronics Inc.	885012006030 .
+.7pr 1uF		C15, C33	2	0805	732-7672-1-ND	Wurth Electronics Inc. Wurth Electronics Inc.	885012207078
3.3uF	Chip Capacitor, 4.7 uF, +/- 20%, 100 V, -55 to 125 degC,	C18	1	1210(3225Metric)	1276-2729-1-ND	Samsung Electro-Mechanics	CL31A335KOCLNNC
J.Jul	1210 (3225 Metric), RoHS, Tape and Reel	010	•	1210(02201410110)	1210 2120 1110	Carrisary Electro-Medianics	0207/0001/002111/0
47pF	12 To (S220 Modilo), FROTTO, Tapo and Frooi	C29, C31	2	0603	399-16402-1-ND	KEMET	C0603C470K5RAC7867
47nF		C30	1	0805	732-8078-1-ND	Wurth Electronics Inc.	885012207096
100uF	Aluminum Electrolytic Capacitor, UD Series, Low Impedance,	C42, C43, C54, C55, C62	5	6.60mm x 6.60mm	1189-1620-1-ND	Rubycon	35TZV100M6.3X8
	100 uF, 35 V, + / - 20%, -55 to 105 degC, Chip Type, 8 x 10		-				
	mm D x L, Pb-Free, Reel						
470nF	11111 B X 2, 1 B 1 100, 11001	C47, C59	2	0603	587-3170-1-ND	Taiyo Yuden	UMK107B7474KA-TR
SL44HE	Schottky Power Rectifier, 2-Pin SMC, 40V, 8A	D1	1	DO-214AB (SMC)	SL44HE3 A/HGICT-ND	Vishay Semiconductor Diodes Division	SL44HE3 A/H
MMBZ20	Transient Voltage Suppressor Diode Array, Dual Common	D2, D3	2	SOT-23-3	MMBZ20VALT1GOSCT-ND	ON Semiconductor	MMBZ20VALT1G
	Anode Diodes for ESD Protection, 3-Pin SOT-23, Pb-Free,						
Headers	Tape and Reel Headers, 2,3,4,6 -Pin, Breakaway 40-pin headers	DCM1, DCM2, JMP1, JMP2, P2, P5, P8, P9, P10,	15		S1011EC-40-ND	Sullins Connector Solutions	PRPC040SAAN-RC
neaders	neaders, 2,3,4,0 -Fill, breakaway 40-pill fleaders	P11, P7, P12, P13, P17, P18	15		31011EC-40-ND	Sullins Connector Solutions	FRF C0403AAN-NC
1734354-1	D-Subminiature Socket, Pitch 1.385 mm, 9 Position, Height	J1	1		609-5192-ND	Amphenol ICC (FCI)	LD09S33E4GV00LF
1734334-1	12.5 mm, Tail Length 3.2 mm, RoHS, Tray	31			009-3192-IND	Ampheriorice (i ci)	ED03033E4GV00Ei
74404064047	WE-LQS SMD Power Inductor, L=4.7 µH	L1	1	6.00mm x 6.00mm	732-5546-1-ND	Wurth Electronics Inc.	74404064047
_CD Module	Header, 16-Pin	LCD1	1	0.00mm x 0.00mm	NHD-0216K1Z-NSB-FBW-L-ND	Newhaven Display Intl	NHD-0216K1Z-NSB-FBW-L
RED LED	SMD mono-color Chip LED, WL-SMCW, Red	LEDRX1, MTR1, MTR2	3	0805	732-4984-1-ND	Wurth Electronics Inc.	150080RS75000
GREEN LED	SMD mono-color Chip LED, WL-SMCW, Red	LEDTX1, PWR1	2	0805	732-4986-1-ND	Wurth Electronics Inc.	150080VS75000
Nucleo	STM32F303 Nucleo Development Board	P1	1	0000	497-15105-ND	STMicroelectronics	NUCLEO-F303RE
2PIN_SCREW_TERM_3_5MM	5 TWO ET COO TRADICO DO FOIO PITICINA DOURA	P3	1		ED2740-ND	On Shore Technology Inc.	OSTTE020104
Barrel Jack		P4	1		CP-202AH-ND	CUI Inc.	PJ-202AH
Header 10X2 RIGHT	Header, 10-Pin, Dual row, Right Angle	P6	1		952-3283-ND	Harwin Inc.	M20-9951045
Header 8X2 Right	Header, 8-Pin, Dual row, Right Angle	P14, P15, P16	3		S2111EC-08-ND	Sullins Connector Solutions	PRPC008DBAN-M71RC
2N7002,215	N-Channel Trench MOSFET, 60 V, 0.3 A, 3-Pin SOT23, Tape		1		785-1000-1-ND	Alpha & Omega Semiconductor Inc.	AO3400A
	and Reel						
0R		R1, R17, R18, AI1, AI2, BI1, BI2, JMP3, M1, M2	10	0603	RMCF0603ZT0R00CT-ND	Stackpole Electronics Inc	RMCF0603ZT0R00
470R		R2, R8	2	0603	311-470GRCT-ND	Yageo	RC0603JR-07470RL
3K3		R3, R4	2	0603	A129543CT-ND	TE Connectivity Passive Product	CRGH0603F3K3
56K 1%		R5	1	0603	311-56KHRCT-ND	Yageo	RC0603FR-0756KL
10k 1%		R6,R25, R26, R27, R31, R32, R34, R39, R40, R49	10	0603	RNCP0603FTD10K0CT-ND	Stackpole Electronics Inc	RNCP0603FTD10K0
0R05 1W		R7, R9	2	2512	696-1661-1-ND	Riedon	CSR25120R05F
10R		R10, R11	2	0603	RMCF0603JT10R0CT-ND	Stackpole Electronics Inc	RMCF0603JT10R0
1.2K		R12	1	0603	RMCF0603JT1K20CT-ND	Stackpole Electronics Inc	RMCF0603JT1K20
680R		R13	1	0603	RHM680DCT-ND	Rohm Semiconductor	ESR03EZPJ681
62R		R14, R15	2	1206	P62ALCT-ND	Panasonic Electronic Components	ERJ-P08J620V
10K	Square Trimpot Trimming Potentiometer, 100 KOhm, 0.25 W,	R16	1	PV36	490-2926-ND	Bourns Inc.	PV36Y502C01B00
	-55 to 125 degC, 3-Pin THD, RoHS, Tube						
100K		R19, R38	2	0603	CR0603-JW-104ELFCT-ND	Bourns Inc.	CR0603-JW-104ELF
1K		R20, R21, R22, R33	4	0603	RHM1.0KDCT-ND	Rohm Semiconductor	ESR03EZPJ102
DR22 1W	Low Ohmic Thick Film Chip Resistor, 0.47 Ohm, -55 to 125 degC, 2-Pin SMD, RoHS, Tape	R23, R24	2	2512	CRL2512-JW-R220ELFCT-ND	Bourns Inc.	CRL2512-JW-R220ELF
1M		R28	1	0603	A130109CT-ND	TE Connectivity Passive Product	CRGCQ0603J1M0
330R		R29, R30	2	0603	CR0603-JW-331ELFCT-ND	Bourns Inc.	CR0603-JW-331ELF
47K		R35, R36	2	0603	CR0603-JW-473ELFCT-ND	Bourns Inc.	CR0603-JW-473ELF
100R		R37, R41, R42	3	0603	A121538CT-ND	TE Connectivity Passive Product	CRGH0603J100R
8RES_ISO_ARRAY	4 Resistor Array, Isolated, 1K	R43, R44, R45, R46, R47, R48	6	1206	Y4102CT-ND	Panasonic Electronic Components	EXB-V8V102JV
uSD	uSD Card Holder, SPI Interface	SD1	1		WM9315CT-ND	Molex	5040771891
NTC		THM1, THM2	2		490-12817-ND	Murata Electronics North America	NXFT15XH103FA1B025
Test point	Test point	TP_CTRST1, TP_DC_VREF1, TP_GND1, TP_GND2, TP_GND3, TP_GND4, TP_PWM1, TP_RST1,	10	SMD	36-5019CT-ND	Keystone Electronics	5019
		TP_SRV1, TP_VFB1					
TPS562201		U1	1	SOT-23-6	296-44397-1-ND	Texas Instruments	TPS562201DDCR
CAT6219-330TDGT3	Fixed Low Drop Positive Voltage Regulator, 3.3V, 5-Pin TSOT	· U2	1	SOT-23-5	CAT6219-330TDGT3CT-ND	ON Semiconductor	CAT6219-330TDGT3
	23, Tape and Reel						
INA219AIDCNR	Zero-Drift, Bi-directional Current / Power Monitor, 3 to 5.5 V, - 40 to 125 degC, 8-pin SOP (DCN8), Green (RoHS & no	U3	1	SOT-23-8	296-23770-1-ND	<u>Texas Instruments</u>	INA219AIDCNR
	40 to 125 degC, 8-pin SOP (DCN8), Green (ROHS & no Sb/Br)						
DC222 Transaiou	ומוטט	114	4	16-TSSOP	ICL3232ECV-16Z-T7ACT-ND	Beneace Electronics Association	ICL3232ECV-16Z-T7A
RS232 Transciever		U4	1	16-15SOP 8-SOIC	MCP2542FDT-E/SNCT-ND	Renesas Electronics America Inc.	MCP2542FDT-E/SN
MCP2542 MCP23S08T-E/SS	8-Bit I/O Expander with Serial Interface, 20-Pin SSOP,	U5 U6	1	8-SOIC 16-SSOP	MCP2542FDT-E/SNCT-ND MCP23S08T-E/SSCT-ND	Microchip Technology	MCP2542FDT-E/SN MCP23S08T-E/SS
VIGF235U8 I-E/SS		UU	1	10-55UP	WGP235001-E/55C1-ND	Microchip Technology	WICF235001-E/55
DDV0044	Extended Temperature, Tape and Reel	117	1	00 UTCCOD	200 20250 4 ND	Towns Instruments	DDV0044DWDD
DRV8814		U7		28-HTSSOP	296-28359-1-ND 1727-2072-1-ND	Texas Instruments	DRV8814PWPR 74LVC2G14GW-Q100H
74LVC2G14		U8, U10	2	SOT-363		Nexperia USA Inc.	
DRV8884		U9	1	24-HTSSOP	296-44590-1-ND	Texas Instruments	DRV8884PWPR