



# LumenLab

## Microsoldering BOM Checklist

Reference	Manufacturer Name	Description	Qty	Applied
<b>U3</b>	Texas Instruments	IC BUFF NON-INVERT 5.5V SOT-23-5	1	
<b>D1</b>	Littelfuse Inc.	TVS DIODE 12VWM 19.9VC DO214AC	1	
<b>F1</b>	Littelfuse Inc.	PTC RESET FUSE 16V 10A RADIAL	1	
<b>U1</b>	Monolithic Power Systems Inc.	IC REG BUCK ADJ 3A SOT583	1	
<b>J1</b>	Tensility International Corp	CONN JACK R/A PCB 5.5X2.1MM	1	
<b>C5</b>	Samsung Electro-Mechanics	CAP CER 22UF 16V X7R 1210	4	
<b>C9</b>	Samsung Electro-Mechanics	CAP CER 22UF 16V X7R 1210	4	
<b>C10</b>	Samsung Electro-Mechanics	CAP CER 22UF 16V X7R 1210	4	
<b>C11</b>	Samsung Electro-Mechanics	CAP CER 22UF 16V X7R 1210	4	
<b>C3</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C4</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C6</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C12</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C14</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C15</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C17</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C18</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C19</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C22</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C23</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>C24</b>	YAGEO	CAP CER 0.1UF 16V X7R 0603	12	
<b>R4</b>	Panasonic Electronic Components	RES SMD 191K OHM 1% 1/10W 0603	1	

<b>R8</b>	Stackpole Electronics Inc	RES 49.9K OHM 1% 1/10W 0603	1
<b>C2</b>	Walsin Technology Corporation	CAP CER 0.022UF 50V X7R 0603	1
<b>C1</b>	Walsin Technology Corporation	CAP CER 300PF 50V C0G/NP0 0603	1
<b>R1</b>	Bourns Inc.	RES SMD 90.9K OHM 1% 1/10W 0603	1
<b>L1</b>	Murata Electronics	FIXED IND 6.8UH 3.4A 35 MOHM SMD	1
<b>R11</b>	Stackpole Electronics Inc	RES 1K OHM 1% 1/10W 0603	3
<b>R13</b>	Stackpole Electronics Inc	RES 1K OHM 1% 1/10W 0603	3
<b>R15</b>	Stackpole Electronics Inc	RES 1K OHM 1% 1/10W 0603	3
<b>C21</b>	KYOCERA AVX	CAP CER 0.05UF 50V X7R 1206	1
<b>C20</b>	Rubycon	CAP ALUM 220UF 20% 10V SMD	1
<b>U5</b>	Texas Instruments	IC AMP CLASS AB MONO 325MW 8SOIC	1
<b>RV1</b>	TT Electronics/BI	POT 10K OHM 1/10W PLASTIC LOG	1
<b>RV2</b>	Same Sky (Formerly CUI Devices)	POT 10K OHM 1/8W CARBON LINEAR	1
<b>U2</b>	Diodes Incorporated	IC REG LINEAR 3.3V 1A SOT-223-3	1
<b>C7</b>	Taiyo Yuden	CAP CER 4.7UF 10V X7R 1206	2
<b>C8</b>	Taiyo Yuden	CAP CER 4.7UF 10V X7R 1206	2
<b>R5</b>	TE Connectivity Passive Product	RES SMD 330 OHM 1% 1/10W 0603	1
<b>J4</b>	CNC Tech	CONN HEADER VERT 10POS 1.27MM	1
<b>U6</b>	Espressif Systems	RF TXRX MOD BT WIFI PCB TH SMD	1
<b>J5</b>	JAE Electronics	CONN RCP USB2.0 TYP C 24P SMD RA	1
<b>U7</b>	Silicon Labs	IC USB TO UART BRIDGE QFN24	1
<b>D2</b>	Texas Instruments	TVS DIODE 3.6VWM 8.4VC 3X2SON	1
<b>R14</b>	Stackpole Electronics Inc	RES 10 OHM 1% 1/10W 0603	1
<b>R16</b>	Stackpole Electronics Inc	RES 5.1K OHM 1% 1/10W 0603	2
<b>R17</b>	Stackpole Electronics Inc	RES 5.1K OHM 1% 1/10W 0603	2
<b>R18</b>	Stackpole Electronics Inc	RES 22 OHM 1% 1/10W 0603	2
<b>R19</b>	Stackpole Electronics Inc	RES 22 OHM 1% 1/10W 0603	2
<b>J2</b>	JST Sales America Inc.	CONN HEADER R/A 6POS 3.96MM	1
<b>J3</b>	JST Sales America Inc.	CONN HEADER R/A 4POS 3.96MM	1
	JST Sales America Inc.	CONN RCPT HSG 6POS 3.96MM	1

	JST Sales America Inc.	CONN RCPT HSG 4POS 3.96MM	1
<b>C13</b>	Chemi-Con	CAP ALUM 1000UF 20% 25V SMD	2
<b>C16</b>	Chemi-Con	CAP ALUM 1000UF 20% 25V SMD	2
<b>R20</b>	Panasonic Electronic Components	RES SMD 4.7K OHM 1% 1/10W 0603	2
<b>R21</b>	Panasonic Electronic Components	RES SMD 4.7K OHM 1% 1/10W 0603	2
<b>R7</b>	Panasonic Electronic Components	RES SMD 33 OHM 1% 1/10W 0603	1
<b>SW1</b>	Würth Elektronik	SWITCH ROCKER SPST 16A 250V	1
<b>LS1</b>	Challenge Electronics	SPEAKER 8OHM 3W 83DB	1
<b>J6</b>	Hirose Electric Co Ltd	CONN HEADER VERT 2POS 2.5MM	1
<b>R2</b>	YAGEO	RES 10K OHM 1% 1/10W 0603	10
<b>R3</b>	YAGEO	RES 10K OHM 1% 1/10W 0603	10
<b>R6</b>	YAGEO	RES 10K OHM 1% 1/10W 0603	10
<b>R9</b>	YAGEO	RES 10K OHM 1% 1/10W 0603	10
<b>R10</b>	YAGEO	RES 10K OHM 1% 1/10W 0603	10
<b>R12</b>	YAGEO	RES 10K OHM 1% 1/10W 0603	10