Item #	Designator	Value	Footprint	Comment	LibRef	Quantity	PackageName	PartNumber	PartType	Pins	Model:Footprint
1	C100	27p	CAP_0402	0402	Cap	1			0402	2	
2	C101	27p	CAP_0402	0402	Cap	1			0402	2	
3	C102	18p	CAP_0402	0402	Cap	1			0402	2	
4	C103	18p	CAP_0402	0402	Cap	1			0402	2	
5	C104	100n	CAP_0402	0402	Cap	1			0402	2	
6	C105	100n	CAP_0402	0402	Cap	1			0402	2	
7	C106	100n	CAP_0402	0402	Cap	1			0402	2	
8	C107	100n	CAP_0402	0402	Cap	1			0402	2	
9	C108	100n	CAP_0402	0402	Cap	1			0402	2	
10	C109	100n	CAP_0402	0402	Cap	1			0402	2	
11	C110	100n	CAP_0402	0402	Cap	1			0402	2	
12	C111	100n	CAP_0402	0402	Cap	1			0402	2	
13	C112	100n	CAP_0402	0402	Cap	1			0402	2	
14	C113	2.2u	CAP_0805	0805	Cap	1			0805	2	
15	C114	2.2u	CAP_0805	0805	Cap	1			0805	2	
16	C115	2.2u	CAP_0805	0805	Cap	1			0805	2	
17	C116	100n	CAP_0402	0402	Cap	1			0402	2	
18	C117	100n	CAP_0402	0402	Cap	1			0402	2	
19	C118	100n	CAP_0402	0402	Cap	1			0402	2	
20	C119	100n	CAP_0402	0402	Cap	1			0402	2	
21	C120	100n	CAP_0402	0402	Cap	1			0402	2	
22	C121	100n	CAP_0402	0402	Cap	1			0402	2	
23	C122	100n	CAP_0402	0402	Cap	1			0402	2	
24	C123	100n	CAP_0402	0402	Cap	1			0402	2	
25	C124	100n	CAP_0402	0402	Cap	1			0402	2	
26	C200	1u	CAP_0805	0805,50V	Cap	1			0805,50V	2	
27	C201	4.7u	CAP_1210	1210,50V	Cap	1			1210,50V	2	
28	C202	4.7u	CAP_1210	1210,50V	Cap	1			1210,50V	2	
29	C203	4.7u	CAP_1210	1210,50V	Cap	1			1210,50V	2	
30	C204	100n	CAP_0402	0402	Cap	1			0402	2	
31	C205	10u	CAP_1206	1206,16V	Cap	1			1206,16V	2	
32	C206	10u	CAP_1206	1206,16V	Cap	1			1206,16V	2	
33	C300	18p	CAP_0402	0402	Cap	1			0402	2	
34	C301	18p	CAP_0402	0402	Cap	1			0402	2	
35	C302	100n	CAP_0402	0402	Cap	1			0402	2	
36	C303	100n	CAP_0402	0402	Cap	1			0402	2	
37	C304	220p	CAP_0402	0402	Cap	1			0402	2	
38	C305	220p	CAP_0402	0402	Cap	1			0402	2	
39	C400	100n	CAP_0402	0402	Cap	1			0402	2	
40	C401	10u	CAP_1206	1206,16V	Cap	1			1206,16V	2	
41	C402	100n	CAP_0402	0402	Cap	1			0402	2	
42	C403	10p	CAP_0805	0805	Cap	1			0805	2	
43	C404	10u	CAP_0805	0805	Cap	1			0805	2	
44	C405	47u	CAP_1206	1206,10V	Cap	1			1206,10V	2	
45	C406	10u	CAP_0805	0805	Cap	1			0805	2	
46	C407	2.2u	CAP_0805	0805	Cap	1			0805	2	
47	C408	10n	CAP_0805	0805	Cap	1			0805	2	
48	C500	100n	CAP_0402	0402	Cap	1			0402	2	
49	C501	100n	CAP_0402	0402	Cap	1			0402	2	
50	C502	100n	CAP_0402	0402	Cap	1			0402	2	
51	C503	100n	CAP_0402	0402	Cap	1			0402	2	
52	C504	100n	CAP_0402	0402	Cap	1			0402	2	
53	C505	100n	CAP_0402	0402	Cap	1			0402	2	
54	C506	100n	CAP_0402	0402	Cap	1			0402	2	
55	C507	100n	CAP_0402	0402	Cap	1			0402	2	
56	C600	47u	CAP_1206	1206,10V	Cap	1			1206,10V	2	
57	C601	10u	CAP_1206	1206,16V	Cap	1			1206,16V	2	
58	C700	1n	CAP_0805	0805	Cap	1			0805	2	
59	C701	47u	CAP_1206	1206,10V	Cap	1			1206,10V	2	
60	C702	10u	CAP_1206	1206	Cap	1			1206	2	
61	D200		SODFL519X262-2N (CMSH3-40MA)		D Schottky	1	DO-214AC (SMA)	CMSH3-40MA		2	SODFL, 2-Leads, Body 2.60x5.19mm,
62	D201		SODFL519X262-2N (CMSH3-40MA)		D Schottky	1	DO-214AC (SMA)	CMSH3-40MA		2	SODFL, 2-Leads, Body 2.60x5.19mm,
63	D202		SOT95P240X100-3N (CMPSH1-4 TR)		D Schottky	1	SOT-23F	CMPSH1-4		2	SOT23, 3-Leads, Body 2.90x2.40mm,
64	D300		LED_0603	0603	LED0	1			0603	2	
65	D301		LED_0603	0603	LED0	1			0603	2	
66	D302		LED_0603	0603	LED0	1			0603	2	
67	D303		LED_0603	0603	LED0	1			0603	2	
68	D304		LED_0603	0603	LED0	1			0603	2	
69	D305		LED_0603	0603	LED0	1			0603	2	
70	J100		HDR_100TH_1x6	HDR_FTDI	HDR_FTDI	1			HDR_FTDI	6	100TH pin header 1x6 vertical
71	J101		HDR_100TH_1x6	HDR_FTDI	HDR_FTDI	1			HDR_FTDI	6	100TH pin header 1x6 vertical
72	J102		HDR_100TH_2X8_SMT	GPIO	Header 8X2	1			GPIO	16	100TH pin header, 2x8, SMT
73	J103		HDR_100TH_2X6_SMT	HDR_SWD_2x6	HDR_SWD_2x6	1			HDR_SWD_2x6	12	100TH pin header, 2x6, SMT
74	J200		691322110002	691322110002	691322110002	1		691322110002	691322110002	2	3,50mm - PCB Horizontal - 02p
75	J201		691322110003	691322110003	691322110003	1		691322110003	691322110003	3	3,50mm - PCB Horizontal - 03p
76	J600		HDR_100TH_2x10	CAMERA_2x10	CAMERA_2x10	1			CAMERA_2x10	20	100TH pin header 2x10 vertical
77	J700		HDR1X8	HDR_FTDI_EXTENDED	HDR_FTDI_EXTENDED	1			HDR_FTDI_EXTENDED	8	Connector; Header; 8 Position
78	J701		HDR_100TH_2X6_SMT	ESP_GPIO	Header 6X2	1			ESP_GPIO	12	100TH pin header, 2x6, SMT
79	L200	15u	srr1208		Inductor	1		SRR1208-150ML		2	
80	L400	3.3u	SRR1260		Inductor	1		SRR1260-3R3		2	
81	MTGH1		MTGH-M3x0.5	MTGH	MTGH	1			MTGH	1	M3 x 0.5 pan head mounting hole
82	MTGH2		MTGH-M3x0.5	MTGH	MTGH	1			MTGH	1	M3 x 0.5 pan head mounting hole
83	MTGH3		MTGH-M3x0.5	MTGH	MTGH	1			MTGH	1	M3 x 0.5 pan head mounting hole
84	MTGH4		MTGH-M3x0.5	MTGH	MTGH	1			MTGH	1	M3 x 0.5 pan head mounting hole
85	P200		HDR1X2	PV_IN	Header 2	1			PV_IN	2	Connector; Header; 2 Position
86	P201		HDR1X2	NTC	Header 2	1			NTC	2	Connector; Header; 2 Position
87	P202		HDR1X3	SHDN_EN	Header 3	1			SHDN_EN	3	Connector; Header; 3 Position
88	P203		HDR1X2	VBAT	Header 2	1			VBAT	2	Connector; Header; 2 Position
89	Q300		SOT90P240X110-3N		2N3904	1	SOT-23	MMBT3904		3	SOT23, 3-Leads, Body 2.90x2.40mm, Pitch 0.90mm, MMBT3904
90	Q700		SOT95P240X100-3N (CMPSH1-4 TR)		MOSFET-N	1	SOT23	2N7002		3	SOT23, 3-Leads, Body 2.90x2.40mm,
91	Q701		SOT95P240X100-3N (CMPSH1-4 TR)		MOSFET-N	1	SOT23	2N7002		3	SOT23, 3-Leads, Body 2.90x2.40mm,
92	R100	100	RES_0805	0805	Res1	1			0805	2	
93	R101	0	RES_0805	0805	Res1	1			0805	2	
94	R102	100	RES_0805	0805	Res1	1			0805	2	
95	R103	220	RES_0805	0805	Res1	1			0805	2	
96	R104	100	RES_0805	0805	Res1	1			0805	2	
97	R106	100	RES_0805	0805	Res1	1			0805	2	
98	R112	DNP	RES_0805	0805	Res1	1			0805	2	
99	R114	DNP	RES_0805	0805	Res1	1			0805	2	
100	R115	DNP	RES_0805	0805	Res1	1			0805	2	
101	R116	510	RES_0805	0805	Res1	1			0805	2	
102	R200	80m	RES_1206	1206	Res1	1			1206	2	
103	R201	340k	RES_0805	0805	Res1	1			0805	2	
104	R202	1k	RES_0805	0805	Res1	1			0805	2	
105	R203	105k	RES_0805	0805	Res1	1			0805	2	
106	R204	2.4k	RES_0805	0805	Res1	1			0805	2	
107	R205	215k	RES_0805	0805	Res1	1			0805	2	
108	R206	24.3k	RES_0805	0805	Res1	1			0805	2	
109	R207	54.9k	RES_0805	0805	Res1	1			0805	2	
110	R208	10k	RES_0805	0805	Res1	1			0805	2	
111	R209	10k	RES_0805	0805	Res1	1			0805	2	
112	R210	25m	RES_1206	1206	Res1	1			1206	2	
113	R300	3.3k	RES_0805	0805	Res1	1			0805	2	
114	R301	3.3k	RES_0805	0805	Res1	1			0805	2	
115	R302	3.3k	RES_0805	0805	Res1	1			0805	2	
116	R303	330	RES_0805	0805	Res1	1			0805	2	
117	R304	330	RES_0805	0805	Res1	1			0805	2	
118	R305	330	RES_0805	0805	Res1	1			0805	2	
119	R306	330	RES_0805	0805	Res1	1			0805	2	
120	R307	1M	RES_0402	0402	Res1	1			0402	2	
121	R308	1M	RES_0402	0402	Res1	1			0402	2	
122	R400	0	RES_1206	1206	Res1	1			1206	2	
123	R401	1M	RES_0805	0805	Res1	1			0805	2	
124	R402	0	RES_1206	1206	Res1	1			1206	2	
125	R403	100k	RES_0805	0805	Res1	1			0805	2	
126	R404	309k	RES_0805	0805	Res1	1			0805	2	
127	R405	33.2k	RES_0805	0805	Res1	1			0805	2	
128	R500	49.9	RES_0805	0805	Res1	1			0805	2	
129	R501	49.9	RES_0805	0805	Res1	1			0805	2	
130	R502	49.9	RES_0805	0805	Res1	1			0805	2	
131	R600	3.3k	RES_0805	0805	Res1	1			0805	2	
132	R601	3.3k	RES_0805	0805	Res1	1			0805	2	
133	R603	49.9	RES_0805	0805	Res1	1			0805	2	
134	R700	10k	RES_0805	0805	Res1	1			0805	2	
135	R701	10k	RES_0805	0805	Res1	1			0805	2	
136	R702	10k	RES_0805	0805	Res1	1			0805	2	
137	R703	10k	RES_0805	0805	Res1	1			0805	2	
138	R704	100	RES_0805	0805	Res1	1			0805	2	
139	R705	100	RES_0805	0805	Res1	1			0805	2	
140	R706	10k	RES_0805	0805	Res1	1			0805	2	
141	R707	10k	RES_0805	0805	Res1	1			0805	2	
142	R708	100	RES_0805	0805	Res1	1			0805	2	
143	R709	100	RES_0805	0805	Res1	1			0805	2	
144	R710	10k	RES_0805	0805	Res1	1			0805	2	
145	R711	0	RES_1206	1206	Res1	1			1206	2	
146	RR500	49.9	CAC-80P319X150-8M	RES_ARR_4	RES_ARR_4	1			RES_ARR_4	8	Chip Array, ConvexS, 8-Leads, Pitch 0.80mm, Body 3.20x1.50mm, for Vishay CRA06S
147	RR501	49.9	CAC-80P319X150-8M	RES_ARR_4	RES_ARR_4	1			RES_ARR_4	8	Chip Array, ConvexS, 8-Leads, Pitch 0.80mm, Body 3.20x1.50mm, for Vishay CRA06S
148	RR502	49.9	CAC-80P319X150-8M	RES_ARR_4	RES_ARR_4	1			RES_ARR_4	8	Chip Array, ConvexS, 8-Leads, Pitch 0.80mm, Body 3.20x1.50mm, for Vishay CRA06S
149	RR503	49.9	CAC-80P319X150-8M	RES_ARR_4	RES_ARR_4	1			RES_ARR_4	8	Chip Array, ConvexS, 8-Leads, Pitch 0.80mm, Body 3.20x1.50mm, for Vishay CRA06S
150	RR504	49.9	CAC-80P319X150-8M	RES_ARR_4	RES_ARR_4	1			RES_ARR_4	8	Chip Array, ConvexS, 8-Leads, Pitch 0.80mm, Body 3.20x1.50mm, for Vishay CRA06S
151	RR505	49.9	CAC-80P319X150-8M	RES_ARR_4	RES_ARR_4	1			RES_ARR_4	8	Chip Array, ConvexS, 8-Leads, Pitch 0.80mm, Body 3.20x1.50mm, for Vishay CRA06S
152	RR506	49.9	CAC-80P319X150-8M	RES_ARR_4	RES_ARR_4	1			RES_ARR_4	8	Chip Array, ConvexS, 8-Leads, Pitch 0.80mm, Body 3.20x1.50mm, for Vishay CRA06S
153	RR507	49.9	CAC-80P319X150-8M	RES_ARR_4	RES_ARR_4	1			RES_ARR_4	8	Chip Array, ConvexS, 8-Leads, Pitch 0.80mm, Body 3.20x1.50mm, for Vishay CRA06S
154	RR509	49.9	CAC-80P319X150-8M	RES_ARR_4	RES_ARR_4	1			RES_ARR_4	8	Chip Array, ConvexS, 8-Leads, Pitch 0.80mm, Body 3.20x1.50mm, for Vishay CRA06S
155	SJ100		SJ_0805	0805	SJ	1			0805	2	
156	SJ101		SJ_0805	0805	SJ	1			0805	2	
157	SJ102		SJ_0805	0805	SJ	1			0805	2	
158	SJ103		SJ_0805	0805	SJ	1			0805	2	
159	SJ104		SJ_0805	0805	SJ	1			0805	2	
160	SJ105		SJ_0805	0805	SJ	1			0805	2	
161	SJ106		SJ_0805	0805	SJ	1			0805	2	
162	SJ107		SJ_0805	0805	SJ	1			0805	2	
163	SJ108		SJ_0805	0805	SJ	1			0805	2	
164	SJ109		SJ_0805	0805	SJ	1			0805	2	
165	SJ110		SJ_0805	0805	SJ	1			0805	2	
166	SJ111		SJ_0805	0805	SJ	1			0805	2	
167	SJ112		SJ_0805	0805	SJ	1			0805	2	
168	SJ200		SJ_0805	0805	SJ	1			0805	2	
169	SJ300		SJ_0805	0805	SJ	1			0805	2	
170	SJ301		SJ_0805	0805	SJ	1			0805	2	
171	SJ600		SJ_0805	0805	SJ	1			0805	2	
172	SJ601		SJ_0603	0603	SJ	1			0603	2	0603 net tie
173	SJ602		SJ_0603	0603	SJ	1			0603	2	0603 net tie
174	SJ603		SJ_0603	0603	SJ	1			0603	2	0603 net tie
175	SJ604		SJ_0603	0603	SJ	1			0603	2	0603 net tie
176	SJ605		SJ_0805	0805	SJ	1			0805	2	
177	SJ606		SJ_0603	0603	SJ	1			0603	2	0603 net tie
178	SJ607		SJ_0805	0805	SJ	1			0805	2	
179	SJ608		SJ_0603	0603	SJ	1			0603	2	0603 net tie
180	SJ609		SJ_0603	0603	SJ	1			0603	2	0603 net tie
181	SJ610		SJ_0603	0603	SJ	1			0603	2	0603 net tie
182	SW100		4341x10438x6	BTN0	WS-TASV, 434121043816	1		434121043816	BTN0	2	6.0*3.5mm vertical type, SMD, height 4.3mm, white actuator, 260gf, T&R
183	SW101		4341x10438x6	RESET	WS-TASV, 434121043816	1		434121043816	RESET	2	6.0*3.5mm vertical type, SMD, height 4.3mm, white actuator, 260gf, T&R
184	SW700		4341x10438x6	RESET	WS-TASV, 434121043816	1		434121043816	RESET	2	6.0*3.5mm vertical type, SMD, height 4.3mm, white actuator, 260gf, T&R
185	TP100		TP_SMALL		TP_SMALL	1				1	5015
186	TP101		TP_SMALL		TP_SMALL	1				1	5015
187	TP102		TP_LARGE	TP_LARGE	TP_LARGE	1			TP_LARGE	1	5016
188	TP103		TP_SMALL		TP_SMALL	1				1	5015
189	TP104		TP_SMALL		TP_SMALL	1				1	5015
190	TP106		TP_SMALL		TP_SMALL	1				1	5015
191	TP107		TP_LARGE	TP_LARGE	TP_LARGE	1			TP_LARGE	1	5016
192	TP108		TP_LARGE	TP_LARGE	TP_LARGE	1			TP_LARGE	1	5016
193	TP200		TP_LARGE	TP_LARGE	TP_LARGE	1			TP_LARGE	1	5016
194	TP201		TP_SMALL		TP_SMALL	1				1	5015
195	TP202		TP_TINY	TP_TINY	TP_TINY	1			TP_TINY	1	1mm round tiny testpoint
196	TP203		TP_SMALL		TP_SMALL	1				1	5015
197	TP204		TP_SMALL		TP_SMALL	1				1	5015
198	TP205		TP_SMALL		TP_SMALL	1				1	5015
199	TP206		TP_LARGE	TP_LARGE	TP_LARGE	1			TP_LARGE	1	5016
200	TP207		TP_SMALL		TP_SMALL	1				1	5015
201	TP208		TP_SMALL		TP_SMALL	1				1	5015
202	TP209		TP_SMALL		TP_SMALL	1				1	5015
203	TP300		TP_SMALL		TP_SMALL	1				1	5015
204	TP301		TP_SMALL		TP_SMALL	1				1	5015
205	TP302		TP_SMALL		TP_SMALL	1				1	5015
206	TP304		TP_LARGE	TP_LARGE	TP_LARGE	1			TP_LARGE	1	5016
207	TP305		TP_SMALL		TP_SMALL	1				1	5015
208	TP306		TP_SMALL		TP_SMALL	1				1	5015
209	TP307		TP_SMALL		TP_SMALL	1				1	5015
210	TP308		TP_SMALL		TP_SMALL	1				1	5015
211	TP309		TP_SMALL		TP_SMALL	1				1	5015
212	TP310		TP_SMALL		TP_SMALL	1				1	5015
213	TP400		TP_LARGE	TP_LARGE	TP_LARGE	1			TP_LARGE	1	5016
214	TP401		TP_SMALL		TP_SMALL	1				1	5015
215	TP500		TP_TINY	TP_TINY	TP_TINY	1			TP_TINY	1	1mm round tiny testpoint
216	TP501		TP_TINY	TP_TINY	TP_TINY	1			TP_TINY	1	1mm round tiny testpoint
217	TP600		TP_SMALL		TP_SMALL	1				1	5015
218	TP601		TP_SMALL		TP_SMALL	1				1	5015
219	TP700		TP_SMALL		TP_SMALL	1				1	5015
220	TP701		TP_SMALL		TP_SMALL	1				1	5015
221	TP702		TP_LARGE	TP_LARGE	TP_LARGE	1			TP_LARGE	1	5016
222	U100		TSQFP50P2200X2200X160-144M	STM32F429	STM32F429	1	LQFP-144	STM32F429	STM32F429	144	TSQFP, 144-Leads, Body 20.00x20.00mm, Pitch 0.50mm, STM32F429
223	U200		TSOP65P490X110_HS-13N (LT3652)		LT3652	1	MSOP-12	LT3652		13	TSOP, 12-Leads, Body 4.04x3.00mm, Pitch 0.65mm, Thermal Pad 2.95x1.76mm,
224	U201		SOIC127P600X175-8N (LM234)		LM234	1	SOIC-8	LM234SM		3	SOIC, 8-Leads, Body 4.90x3.90mm, Pitch 1.27mm,
225	U202		SOIC127P600X175-8N (LM234)		LM234	1	SOIC-8	LM234SM		3	SOIC, 8-Leads, Body 4.90x3.90mm, Pitch 1.27mm,
226	U203		DFN8-3x3		LTC2943A	1	DFN-8	LTC2943		9	LTC2943
227	U300		TSOP65P490X110-8N		MCP7941x	1	MSOP-8	MCP79412		8	TSOP, 8-Leads, Body 3.00x3.00mm, Pitch 0.65mm (MSOP-8, MCP79412)
228	U301		TSOP65P490X110-8N		EMC1412	1	MSOP-8	EMC1412-1-ACZL-TR		8	TSOP, 8-Leads, Body 3.00x3.00mm, Pitch 0.65mm (MSOP-8, MCP79412)
229	U302		TSOP65P490X110-8N		LTC2054/LTC2055	1	MSOP-8	LTC2055		8	TSOP, 8-Leads, Body 3.00x3.00mm (LTC2054/LTC2055)
230	U400		TSSOP50P490X110_HS-11N		LT8608	1	MSOP-10	LT8608		11	TSSOP, 10-Leads, Body 3.00x3.00mm, Pitch 0.50mm, Thermal Pad 1.88x1.68mm, IPC Medium Density
231	U500		TSOP80P1170X120-54N		IS42S16400J	1	TSOP-54	IS42S16400J		54	TSOP, 54-Leads, Body 22.22x10.16mm, (IS42S16400J)
232	U700		ESP8266 ESP-12-E		ESP8266 ESP-12-E	1		ESP8266-12E		22	ESP8266 ESP-12-E
233	Y100		HC-49S		XTAL	1	HC-49S	9C-8.000MEEJ-T		2	Crystal
234	Y101		XTAL-SOJ-4		XTAL-SOJ-4	1	SOJ-4	ABS25-32.768KHZ-T		4	
235	Y300		XTAL-SOJ-4		XTAL-SOJ-4	1	SOJ-4	ABS25-32.768KHZ-T		4	