

Pos	#	Part	Value	Library	Vendor	Manufacturer	Product	Tol.	Volt./Pow.	Size	Resourcing	
		PCB_20_7 SMD Partlist (PCB 19.6 + PCB 17.2 + PCB 16.2 on one panel) 5.3.2020										
1	10	R508	0.27	R0603	Mouser Electronics	Panasonic	ERJ-3RQR27V	5%	1000mW	0603	please buy for us	
		R509	0.27	R0603							please buy for us	
		R510	0.27	R0603							please buy for us	
		R511	0.27	R0603							please buy for us	
		R608	0.27	R0603							please buy for us	
		R609	0.27	R0603							please buy for us	
		R704	0.27	R0603							please buy for us	
		R705	0.27	R0603							please buy for us	
		R826	0.27	R0603							please buy for us	
		R831	0.27	R0603							please buy for us	
2	3	R505	1.5	R2512	Mouser Electronics	Yageo	RC2512JK-071R5L	5%	200V/1W	2512	please buy for us	
		R506	1.5	R2512							please buy for us	
		R507	1.5	R2512							please buy for us	
3	1	R804	5.1	R0603	Mouser Electronics	Yageo	RC0603JR-075R1L	5%	75V/100mW	0603	please buy for us	
4	2	R502	10	R0603	Mouser Electronics	Yageo	RC0603FR-0710RL	1%	75V/100mW	0603	please buy for us	
		R702	10	R0603							please buy for us	
5	18	R6	49.9	R0603	Mouser Electronics	Yageo	RC0603FR-0749R9L	1%	75V/100mW	0603	please buy for us	
		R7	49.9	R0603							please buy for us	
		R8	49.9	R0603							please buy for us	
		R9	49.9	R0603							please buy for us	
		R10	49.9	R0603							please buy for us	
		R11	49.9	R0603							please buy for us	
		R104	49.9	R0603							please buy for us	
		R120	49.9	R0603							please buy for us	
		R204	49.9	R0603							please buy for us	
		R220	49.9	R0603							please buy for us	
		R304	49.9	R0603							please buy for us	
		R320	49.9	R0603							please buy for us	
		R404	49.9	R0603							please buy for us	
		R420	49.9	R0603							please buy for us	
		R602	49.9	R0603							please buy for us	
		R603	49.9	R0603							please buy for us	
		R604	49.9	R0603							please buy for us	
		R605	49.9	R0603							please buy for us	
6	6	R5	75	R0603	Mouser Electronics	Yageo	RC0603FR-0775RRL	1%	75V/100mW	0603	please buy for us	
		R610	75	R0603							please buy for us	
		R611	75	R0603							please buy for us	
		R828	75	R0603							please buy for us	
		R829	75	R0603							please buy for us	
		R830	75	R0603							please buy for us	
7	1	R405	82	R0603	Mouser Electronics	Yageo	RC0603FR-0782RL	1%	75V/100mW	0603	please buy for us	
8	5	R119	100	R0603	Mouser Electronics	Yageo	RC0603FR-07100RL	1%	75V/100mW	0603	please buy for us	
		R219	100	R0603							please buy for us	
		R319	100	R0603							please buy for us	
		R419	100	R0603							please buy for us	
		R703	100	R0603							please buy for us	
9	6	R25	160	R0603	Mouser Electronics	Yageo	RC0603FR-07160RL	1%	75V/100mW	0603	please buy for us	
		R26	160	R0603							please buy for us	
		R27	160	R0603							please buy for us	
		R100	160	R0603							please buy for us	
		R200	160	R0603							please buy for us	
		R300	160	R0603							please buy for us	
10	4	R106	270	R0603	Mouser Electronics	Yageo	RC0603FR-07270RL	1%	75V/100mW	0603	please buy for us	
		R206	270	R0603							please buy for us	
		R306	270	R0603							please buy for us	
		R406	270	R0603							please buy for us	
11	10	R105	330	R0603	Mouser Electronics	Yageo	RC0603FR-07330RL	1%	75V/100mW	0603	please buy for us	
		R205	330	R0603							please buy for us	
		R305	330	R0603							please buy for us	
		R808	330	R0603							please buy for us	
		R810	330	R0603							please buy for us	
		R812	330	R0603							please buy for us	
		R814	330	R0603							please buy for us	
		R816	330	R0603							please buy for us	
		R819	330	R0603							please buy for us	
		R820	330	R0603							please buy for us	
12	3	R700	470	R0603	Mouser Electronics	Yageo	RC0603FR-07470RL	1%	75V/100mW	0603	please buy for us	
		R701	470	R0603							please buy for us	
		R800	470	R0603							please buy for us	
13	2	R600	680	R0603	Mouser Electronics	Yageo	RC0603FR-07680RL	1%	75V/100mW	0603	please buy for us	
		R601	680	R0603							please buy for us	
14	30	R18	1K	R0603	Mouser Electronics	Yageo	RC0603FR-071KL	1%	75V/100mW	0603	please buy for us	
		R19	1K	R0603							please buy for us	
		R20	1K	R0603							please buy for us	
		R21	1K	R0603							please buy for us	
		R22	1K	R0603							please buy for us	
		R23	1K	R0603							please buy for us	
		R101	1K	R0603							please buy for us	
		R102	1K	R0603							please buy for us	
		R103	1K	R0603							please buy for us	
		R121	1K	R0603							please buy for us	
		R201	1K	R0603							please buy for us	
		R202	1K	R0603							please buy for us	
		R203	1K	R0603							please buy for us	
		R221	1K	R0603							please buy for us	
		R301	1K	R0603							please buy for us	
		R302	1K	R0603							please buy for us	
		R303	1K	R0603							please buy for us	
		R321	1K	R0603							please buy for us	
		R401	1K	R0603							please buy for us	
		R402	1K	R0603							please buy for us	
		R403	1K	R0603							please buy for us	
		R421	1K	R0603							please buy for us	
		R503	1K	R0603							please buy for us	
		R807	1K	R0603							please buy for us	
		R809	1K	R0603							please buy for us	
		R811	1K	R0603							please buy for us	
		R813	1K	R0603							please buy for us	
		R815	1K	R0603							please buy for us	
		R817	1K	R0603							please buy for us	
		R825	1K	R0603							please omit	
15	12	R4	2.2K	R0603	Mouser Electronics	Yageo	RC0603FR-072K2L	1%	75V/100mW	0603	please buy for us	
		R24	2.2K	R0603							please buy for us	
		R108	2.2K	R0603							please buy for us	
		R208	2.2K	R0603							please buy for us	
		R308	2.2K	R0603							please buy for us	
		R408	2.2K	R0603							please buy for us	
		R504	2.2K	R0603							please buy for us	
		R606	2.2K	R0603							please buy for us	
		R801	2.2K	R0603							please buy for us	
		R802	2.2K	R0603							please buy for us	

41	30	C9	100nF	C0603	Mouser Electronics	Yaego	CC0603JRX7R8BB104	5%	25V/X7R	0603	please buy for us
		C10	100nF	C0603							please buy for us
		C11	100nF	C0603							please buy for us
		C12	100nF	C0603							please buy for us
		C13	100nF	C0603							please buy for us
		C127	100nF	C0603							please buy for us
		C227	100nF	C0603							please buy for us
		C327	100nF	C0603							please buy for us
		C427	100nF	C0603							please buy for us
		C502	100nF	C0603							please buy for us
		C506	100nF	C0603							please buy for us
		C508	100nF	C0603							please buy for us
		C511	100nF	C0603							please buy for us
		C512	100nF	C0603							please buy for us
		C514	100nF	C0603							please buy for us
		C516	100nF	C0603							please buy for us
		C600	100nF	C0603							please buy for us
		C601	100nF	C0603							please buy for us
		C604	100nF	C0603							please buy for us
		C701	100nF	C0603							please buy for us
		C702	100nF	C0603							please buy for us
		C800	100nF	C0603							please buy for us
		C801	100nF	C0603							please buy for us
		C802	100nF	C0603							please buy for us
C803	100nF	C0603	please buy for us								
C804	100nF	C0603	please buy for us								
C805	100nF	C0603	please buy for us								
C808	100nF	C0603	please buy for us								
C809	100nF	C0603	please buy for us								
C812	100nF	C0603	please buy for us								
42	68	C3	1uF	C0603	Mouser Electronics	Yaego	CC0603KRX7R8BB105	10%	25V/X7R	0603	please buy for us
		C5	1uF	C0603							please buy for us
		C7	1uF	C0603							please buy for us
		C100	1uF	C0603							please buy for us
		C102	1uF	C0603							please buy for us
		C112	1uF	C0603							please buy for us
		C113	1uF	C0603							please buy for us
		C114	1uF	C0603							please buy for us
		C115	1uF	C0603							please buy for us
		C116	1uF	C0603							please buy for us
		C117	1uF	C0603							please buy for us
		C118	1uF	C0603							please buy for us
		C119	1uF	C0603							please buy for us
		C120	1uF	C0603							please buy for us
		C121	1uF	C0603							please buy for us
		C122	1uF	C0603							please buy for us
		C125	1uF	C0603							please buy for us
		C200	1uF	C0603							please buy for us
		C202	1uF	C0603							please buy for us
		C212	1uF	C0603							please buy for us
		C213	1uF	C0603							please buy for us
		C214	1uF	C0603							please buy for us
		C215	1uF	C0603							please buy for us
		C216	1uF	C0603							please buy for us
		C217	1uF	C0603							please buy for us
		C218	1uF	C0603							please buy for us
		C219	1uF	C0603							please buy for us
		C220	1uF	C0603							please buy for us
		C221	1uF	C0603							please buy for us
		C222	1uF	C0603							please buy for us
		C225	1uF	C0603							please buy for us
		C300	1uF	C0603							please buy for us
		C302	1uF	C0603							please buy for us
		C312	1uF	C0603							please buy for us
		C313	1uF	C0603							please buy for us
		C314	1uF	C0603							please buy for us
C315	1uF	C0603	please buy for us								
C316	1uF	C0603	please buy for us								
C317	1uF	C0603	please buy for us								
C318	1uF	C0603	please buy for us								
C319	1uF	C0603	please buy for us								
C320	1uF	C0603	please buy for us								
C321	1uF	C0603	please buy for us								
C322	1uF	C0603	please buy for us								
C325	1uF	C0603	please buy for us								
C400	1uF	C0603	please buy for us								
C402	1uF	C0603	please buy for us								
C412	1uF	C0603	please buy for us								
C413	1uF	C0603	please buy for us								
C414	1uF	C0603	please buy for us								
C415	1uF	C0603	please buy for us								
C416	1uF	C0603	please buy for us								
C417	1uF	C0603	please buy for us								
C418	1uF	C0603	please buy for us								
C419	1uF	C0603	please buy for us								
C420	1uF	C0603	please buy for us								
C421	1uF	C0603	please buy for us								
C422	1uF	C0603	please buy for us								
C425	1uF	C0603	please buy for us								
C430	1uF	C0603	please buy for us								
C505	1uF	C0603	please buy for us								
C607	1uF	C0603	please buy for us								
C703	1uF	C0603	please buy for us								
C806	1uF	C0603	please buy for us								
C807	1uF	C0603	please buy for us								
C815	1uF	C0603	please buy for us								
C816	1uF	C0603	please buy for us								
C817	1uF	C0603	please buy for us								
43	29	C6	10uF	C0805	Mouser Electronics	Taiyo Yuden	TMK212BBJ106KG-T	10%	25V/X5R	0805	please buy for us
		C14	10uF	C0805							please buy for us
		C15	10uF	C0805							please buy for us
		C101	10uF	C0805							please buy for us
		C124	10uF	C0805							please buy for us
		C129	10uF	C0805							please buy for us
		C201	10uF	C0805							please buy for us
		C224	10uF	C0805							please buy for us
		C229	10uF	C0805							please buy for us
		C301	10uF	C0805							please buy for us
		C324	10uF	C0805							please buy for us
		C329	10uF	C0805							please buy for us
C401	10uF	C0805	please buy for us								
C424	10uF	C0805	please buy for us								
C429	10uF	C0805	please buy for us								

	C503	10uF	C0805								please buy for us
	C504	10uF	C0805								please buy for us
	C507	10uF	C0805								please buy for us
	C510	10uF	C0805								please buy for us
	C513	10uF	C0805								please buy for us
	C518	10uF	C0805								please buy for us
	C605	10uF	C0805								please buy for us
	C606	10uF	C0805								please buy for us
	C608	10uF	C0805								please buy for us
	C700	10uF	C0805								please buy for us
	C704	10uF	C0805								please buy for us
	C810	10uF	C0805								please buy for us
	C811	10uF	C0805								please buy for us
	C818	10uF	C0805								please buy for us
44	8	C4	47uF	C1210	Mouser Electronics	Murata Electronics	GRM32ER61C476KE15K	10%	16VX5R	1210	please buy for us
		C500	47uF	C1210							please buy for us
		C501	47uF	C1210							please buy for us
		C509	47uF	C1210							please buy for us
		C515	47uF	C1210							please buy for us
		C517	47uF	C1210							please buy for us
		C521	47uF	C1210							please buy for us
		C522	47uF	C1210							please buy for us
45	4	L104	22uH	R1210	Mouser Electronics	Taiyo Yuden	LB3218T220K	10%		1207	please buy for us
		L204	22uH	R1210							please buy for us
		L304	22uH	R1210							please buy for us
		L404	22uH	R1210							please buy for us
46	2	L1	100uH	R1210	Mouser Electronics	Taiyo Yuden	LB3218T101K	10%		1207	please buy for us
		L403	100uH	R1210							please buy for us
47	4	L100	330uH	R1210	Mouser Electronics	Taiyo Yuden	LB3218T331K	10%		1207	please buy for us
		L200	330uH	R1210							please buy for us
		L300	330uH	R1210							please buy for us
		L400	330uH	R1210							please buy for us
48	4	L101	680uH	R1210	Mouser Electronics	Taiyo Yuden	LB3218T681K	10%		1207	please buy for us
		L201	680uH	R1210							please buy for us
		L301	680uH	R1210							please buy for us
		L401	680uH	R1210							please buy for us
49	4	L102	1mH	R1210	Mouser Electronics	Taiyo Yuden	LB3218T102K	10%		1207	please buy for us
		L202	1mH	R1210							please buy for us
		L302	1mH	R1210							please buy for us
		L402	1mH	R1210							please buy for us
50	3	F500	60	R0805	Mouser Electronics	Murata	BLM21PG600SN1D	25%		0805	please buy for us
		F600	60	R0805							please buy for us
		F700	60	R0805							please buy for us
51	3	F501	220	R0805	Mouser Electronics	Murata	BLM21PG221SN1D	25%		0805	please buy for us
		F502	220	R0805							please buy for us
		F800	220	R0805							please buy for us
52	6	IC1	ADA4891	SOT23-5	Mouser Electronics	Analog Devices Inc.	ADA4891-1ARJZ-R7			SOT-23-5	please buy for us
		IC101	ADA4891	SOT23-5							please buy for us
		IC201	ADA4891	SOT23-5							please buy for us
		IC301	ADA4891	SOT23-5							please buy for us
		IC401	ADA4891	SOT23-5							please buy for us
		IC500	ADA4891	SOT23-5							please buy for us
53	1	IC600	ENC28J60	SO28W	Mouser Electronics	Microchip	ENC28J60-ISO			SOIC-28 Wide	please buy for us
54	4	IC103	LTC1569-7	SOIC8	RS Components GmbH	Linear Technology	LTC1569CS8-7#PBF			SOIC	please omit
		IC203	LTC1569-7	SOIC8							please omit
		IC303	LTC1569-7	SOIC8							please omit
		IC403	LTC1569-7	SOIC8							please omit
55	4	IC104	SN74LV1T34DBVRG4	SOT95P275X110-5N	Mouser Electronics	ON Semiconductor	SN74LV1T34DBVRG4			SOT-23-5 Thin	please buy for us
		IC204	SN74LV1T34DBVRG4	SOT95P275X110-5N							please buy for us
		IC304	SN74LV1T34DBVRG4	SOT95P275X110-5N							please buy for us
		IC404	SN74LV1T34DBVRG4	SOT95P275X110-5N							please buy for us
56	8	IC100	MCP6021	SOT23-5	Mouser Electronics	Microchip	MCP6021T-E/OT			SOT-23-5	please buy for us
		IC106	MCP6021	SOT23-5							please buy for us
		IC200	MCP6021	SOT23-5							please buy for us
		IC206	MCP6021	SOT23-5							please buy for us
		IC300	MCP6021	SOT23-5							please buy for us
		IC306	MCP6021	SOT23-5							please buy for us
		IC400	MCP6021	SOT23-5							please buy for us
		IC406	MCP6021	SOT23-5							please buy for us
57	8	IC102	MCP6S93-E/UN	SOP50P490X110-10N	Mouser Electronics	Microchip	MCP6S93-E/UN			MSOP	please buy for us
		IC105	MCP6S93-E/UN	SOP50P490X110-10N							please buy for us
		IC202	MCP6S93-E/UN	SOP50P490X110-10N							please buy for us
		IC205	MCP6S93-E/UN	SOP50P490X110-10N							please buy for us
		IC302	MCP6S93-E/UN	SOP50P490X110-10N							please buy for us
		IC305	MCP6S93-E/UN	SOP50P490X110-10N							please buy for us
		IC402	MCP6S93-E/UN	SOP50P490X110-10N							please buy for us
		IC405	MCP6S93-E/UN	SOP50P490X110-10N							please buy for us
58	2	IC5	TLV70033	SOT95P280X110-5N	Mouser Electronics	Texas Instruments	TLV70033DDCR			SOT23-5	please buy for us
		IC501	TLV70033	SOT95P280X110-5N						SOT23-5	please buy for us
59	3	IC502	LM3940	SOT-223-4	Mouser Electronics	Texas Instruments	LM3940IMP-3.3/NOPB				please buy for us
		IC504	LM3940	SOT-223-4							please buy for us
		IC505	LM3940	SOT-223-4							please buy for us
60	1	IC503	LP5907MFX-4.5NPB	LP5907MFX-4.5NPB	Mouser Electronics	Texas Instruments	LP5907MFX-4.5NPB			SOT23-5	please buy for us
61	3	IC2	THS4531	THS4531ID	Mouser Electronics	Texas Instruments	THS4531IDR			SOIC-8	please buy for us
		IC3	THS4531	THS4531ID							please buy for us
		IC4	THS4531	THS4531ID							please buy for us
62	1	IC800	STM32F40X	LQFP100	Mouser Electronics	STMicroelectronics	STM32F407VGT6TR			LQFP100	please buy for us
63	1	GPS	u-blox MAX-M8W	Blitzortung spezial.de	u-blox	u-blox	u-blox MAX-M8W				will be provided by us
64	1	T1	BC847	SOT23	Mouser Electronics	ON Semiconductor	BC847ALT1G			SOT23	please buy for us
65	7	D-B	BAT54S	SOT23	Mouser Electronics		BAT54SLT1G				please buy for us
		D1-C	BAT54S	SOT23							please buy for us
		D2-C	BAT54S	SOT23							please buy for us
		D3-C	BAT54S	SOT23							please buy for us
		D4-C	BAT54S	SOT23							please buy for us
		D5-C	BAT54S	SOT23							please buy for us
		D6-C	BAT54S	SOT23							please buy for us
66	5	LED1B	LED Red	CHIP-LED0805	Mouser Electronics	Osram Opto Semiconductor	LS R976-NR-1			CHIP-LED0805	please buy for us
		LED4B	LED Red	CHIP-LED0805							please buy for us
		LED6B	LED Red	CHIP-LED0805							please buy for us
		LED-C	LED Red	CHIP-LED0805							please buy for us
		LED-B	LED Red	CHIP-LED0805							please buy for us
67	1	LED7B	LED Yellow	CHIP-LED0805	Mouser Electronics	Osram Opto Semiconductor	LY R976-PS-36			CHIP-LED0805	please buy for us
68	2	LED2B	LED Green	CHIP-LED0805	Mouser Electronics	Osram Opto Semiconductor	LG R971-KN-1			CHIP-LED0805	please buy for us
		LED3B	LED Green	CHIP-LED0805							please buy for us
69	1	LED5B	LED Blue	CHIP-LED0805	Mouser Electronics	Kingbright	APHCM2012QBC/D-F01			CHIP-LED0805	please buy for us