

Item Number	Quantity	Part Reference	Value	PCB Footpri	Description	Digikey part number	Digikey mfr part number
1	1	C1	0.0022uF	805	CAP .0022UF 50V PPS FILM 0805	PCF1105CT-ND	ECH-U1H222GB5
2	25	C2 C3 C5 C10 C11 C12 C13 C15 C18 C19 C20 C21 C23 C24 C25 C27 C34 C36 C38 C42 C43 CB1 CB2 CB3 CB4	0.1uF	805	COND100n50VX7R10%0805	478-1395-1-ND	08055C104KAT2A
3	2	C4 C9	1uF	4x5.3	CONDEL1u50VSMD4X5.32000HR	<a href="#">338-1816-1-ND</a>	AVE105M50B12T-F
4	1	C6	100UF	8x10.5	COND EL 100u 50V 20% 8X10.5 105° 2000HR, new CAP ALUM 100UF 35V 20%	<a href="#">PCE3950CT-ND</a>	EEE-1VA101UP
5	2	C7 C39	0.01UF	805	COND 10n 50V 10% X7R 0805, CAP CER 10000PF 50V 10% X7R 0805	<a href="#">478-1383-1-ND</a>	08055C103KAT2A
6	1	C8	10UF	6.3x5.3	COND EL 10u 50V 6.3X5.3 2000HR, new CAP ALUM 10UF 50V 20% SMD	<a href="#">PCE3914CT-ND</a>	EEE-1HA100SP
7	1	C14	0.033UF	805	COND 33n 50V 10% X7R 0805 nuovo CAP CER 0.033UF 50V 10% X7R 0805	<a href="#">478-1389-1-ND</a>	08055C333KAT2A
8	4	C16 C17 CX1 CX2	22PF	805	COND CER 22pF 50V SMD 0805 NP0 nuovo CAP CER 22PF 50V 5% NP0 0805	<a href="#">399-1113-1-ND</a>	C0805C220J5GACTU
9	1	C26	1UF	THT	CAP FILM MKP 1UF 63VDC 2% THT	BC2076-ND	2222 416 71005
10	1	C28	0.082UF	1210	CAP .082UF 16V PPS FILM 1210 2%	PCF1188CT-ND	ECH-U1C823GX5
11	2	C29 C35	0.15UF	2416	CAP .15UF 50V PPS FILM 2416 2%, CAP FILM 0.15UF 50VDC 2416 2%	<a href="#">PCF1554CT-ND</a>	ECH-U1H154GX9
12	1	C30	0.022uF	1210	CAPACITOR, 1210 22NF 50V; RoHS Compliant:YES; Capacitance:22nF; Voltage	PCF1312TR-ND	ECH-U1H223GX5
13	2	C31 C32	0.068UF	1210	CAP .068UF 16V PPS FILM 1210	PCF1187CT-ND	ECHU1C683GX5
14	1	C33	1.8NF	805	CAP .0018UF 50V PPS FILM SMD 2% 0805	PCF1104CT-ND	ECH-U1H182GB5
15	1	C37	8.2nf	805	CAPACITOR, 0805 8.2NF 16V; RoHS Compliant:YES; Capacitance:8.2nF; Voltage	PCF1176TR-ND	ECHU1C822GX5
16	2	C40 C41	47pf	805	digikey CAP CER 47PF 100V 5% NP0 0805	<a href="#">478-1282-1-ND</a>	08051A470JAT2A

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17	5	D2 D3 D4 DS1 DS2	1N4148	minimelf	DIODO LL4148 SMD MINIMELF, nuovo DIODE SWITCH 75V 500MW MINIMELF	<a href="#">LL4148DICT-ND</a>	LL4148-13
18	1	D5	LT1004CD-1-2	SO8	IC 1.2V MCPWR VOLT REF 8-SOIC	296-14610-1-ND	LT1004CDR-1-2
19	1	FB1	BD	SMD	BEAD CORE 3.2X1.6X1.6 SMD	P9811CT-ND	EXC-CL3225U1
	2	FB2 FB5	120R	805	FERRITE BEAD 120 OHM .50A 0805	732-1601-1-ND	74279202
	3	FB3 FB4 FB6	600R	805	FERRITE BEAD 600 OHM .20A 0805	732-1604-1-ND	742792041
20	2	ISO1 ISO2	6n138	dip-8	OPTOCOUPLER DARL SPLIT 8-DIP SO8 <b>The component could be in THT version</b>	6N138QT-ND	6N138
21	1	J1	USB-FEMALE-B	THT	CONN USB RTANG FEMALE TYPE B PCB	AU-Y1007-R	0
22	1	J2	DSUB 15 female	THT	DSUB 15 female plasticTHT	177-515f-nd	0
23	1	J3	HEADER_4	THT	CONN HEADER VERT 4 POS .100 TIN		
24					deleted		
25	1	M1	2N7002	SOT-23	IC TRANS N-CH 60V 5 OHM sot-23	2N7002NCT-ND	ONSEMI: 2N7002 LT1 - SILICONIX: 2N7002
26	23	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 QS1	2n3904	SOT-23	TRANS NPN 40V 350MW SMD SOT-23 (new rohs TRANS NPN 40V 350MW SMD SOT23- 3)	<a href="#">MMBT3904-FDICT-ND</a>	MMBT3904-7-F
27	1	R1	22.6K	1210	RES 22.6K OHM 1/4W 1% 1210 SMD, new RES 22.6K OHM 1/2W 1% 1210 SMD	541-22.6KAACT-ND	CRCW121022K6FKEA

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28	1	R2	464	1210	RES 464 OHM 1/4W 1% 1210 SMD	P464AACT-ND	ERJ-14NF4640U
29	12	R3 R4 R5 R6 R7 R8 R10 R11 R12 R13 R33 R38	100K	2512	RES 100K 1% 2512 nuovo RES 100K OHM 1W 1% 2512 SMD	<a href="#">PT100KAECT-ND</a>	ERJ-1TYF104U
30	3	R9 R22 R23	1K	1206	RES 1K 5% 1206	<a href="#">P1.0KECT-ND</a>	ERJ-8GEYJ102V
31	1	R14	470	1206	RES 470R 5% 1206; nuovo RES 470 OHM 1/4W 1% 1206 SMD	<a href="#">311-470FRCT-ND</a>	RC1206FR-07470RL
32	2	R15 R18	1.5K	1206	RES 1K5 5% 1206 ; RES 1.50K OHM 1/4W 1% 1206 SMD	<a href="#">311-1.50KFRCT-ND</a>	RC1206FR-071K5L
NO	1	R52	1.5K	805	RES 1K5 5% 0805 ; to be included only for serial version		
33	5	R16 R29 R30 R31 R32	820	805	RES 820R 1% 0805; RES 820 OHM 1/8W 1% 0805 SMD	<a href="#">311-820CRCT-ND</a>	RC0805FR-07820RL
34	3	R17 R19 R27	27	805	RES 27R 5% 0805; RES 27.0 OHM 1/8W 1% 0805 SMD	<a href="#">311-27.0CRCT-ND</a>	RC0805FR-0727RL
35	1	R20	270	805	RES 270R 5% 0805 ; RES 270 OHM 1/8W 1% 0805 SMD	<a href="#">311-270CRCT-ND</a>	RC0805FR-07270RL
36	1	R21	390	1206	RES 390R 5% 1206; RES 390 OHM 1/4W 1% 1206 SMD	<a href="#">311-390FRCT-ND</a>	RC1206FR-07390RL
37	1	R28	4.7K	1206	RES 4K7 5% 1206 ; RES 4.70K OHM 1/4W 1% 1206 SMD	<a href="#">311-4.70KFRCT-ND</a>	RC1206FR-074K7L
38	1	R34	40.2	1210	RES 40.2 OHM 1/4W 1% 1210 SMD	P40.2AACT-ND	ERJ-14NF40R2U
39	1	R35	3.3M	805	RES 3.30M OHM 1/8W 1% 0805 SMD; RES 3.30M OHM 1/8W 1% 0805 SMD	<a href="#">RHM3.30MAHCT-ND</a>	KTR10EZPF3304
40	2	R36 R37	2.8K	805	RES 2.80K OHM 1/8W 1% 0805 SMD; RES 2.80K OHM 1/8W 1% 0805 SMD	<a href="#">311-2.80KCRCT-ND</a>	RC0805FR-072K8L
41	1	R39	5.36K	1210	RES 5.36K OHM 1/4W 1% 1210 SMD	P5.36KAACT-ND	ERJ-14NF5361U
42	2	R40 R42	12.1K	603	RES 12K1 1% 0603 ; RES 12.1K OHM 1/10W 1% 0603 SMD	<a href="#">311-12.1KHRCT-ND</a>	RC0603FR-0712K1L
43	1	R41	5.9K	603	RES 5k90 0.1% 0603: RES 5.9K OHM 1/10W .1% 0603 SMD	<a href="#">RG16P5.9KBCT-ND</a>	RG1608P-5901-B-T5
44	1	R43	4.02K	1206	RES 4K02 1% 1206; RES 4.02K OHM 1/4W 1% 1206 SMD	<a href="#">311-4.02KFRCT-ND</a>	RC1206FR-074K02L

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45	1	R44	7.32K	1210	RES 7.32K OHM 1/4W 1% 1210 SMD	P7.32KAACT-ND	ERJ-14NF7321U
46	2	R45 R46	95.3K	805	RES 95K3 1% 0805 nuovo RES 95.3K OHM 1/8W 1% 0805 SMD	<a href="#">P95.3KCCT-ND</a>	ERJ-6ENF9532V
47	1	R47	243K	1210	RES 243K OHM 1/4W 1% 1210 SMD	P243KAACT-ND	ERJ-14NF2433U
48	3	R49 RS30 RS31	51K	603	RES 51K 1% 0603 nuovo RES 51.1K OHM 1/10W 1% 0603 SMD	<a href="#">541-51.1KHCT-ND</a>	CRCW060351K1FKEA
49	1	R50	124K	1210	RES 124K OHM 1/4W 1% 1210 SMD	P124KAACT-ND	ERJ-14NF1243U
50	1	R51	100	805	RES 100R 1% 0805	<a href="#">P100AACT-ND</a>	ERJ-14NF1000U
51	2	RS1 RS2	2K	603	RES 2K 1% 0603; RES 2.00K OHM 1/10W 1% 0603 SMD	<a href="#">311-2.00KHRCT-ND</a>	RC0603FR-072KL
52	4	U1 U2 U3 U11	TLC2274	SOP-14	IC QUAD RAIL-RAIL OPAMP SOP-14	296-1306-5-ND	TLC2274CD
53	1	U4	RY-0505D	THT	Converter Dc/dc 5v -> +5 -5 Recom RY-0505D sip 7	945-1340-ND	
54	1	U5	FT8U232BL	QUAD. 80M/32/ WG9.0 0	USB-232 converter ex ft232bm	<a href="#">768-1009-1-ND</a>	FT8U232BL
55	1	U6	PIC16C773	SOIC-28	IC MICRO CTRL 4K A/D OTP SOIC-28	PIC16C773/SO-ND	PIC16C773/SO
56	1	U7	MAX364	SO16	IC SW ANLG QUAD SPST NC 16-SOIC, rohs IC SWITCH QUAD SPST 16SOIC	MAX364CSE+-ND	MAX364CSE+
57	2	U8 U9	MC14051	soic-16	IC CMOS MLTIPLXR 8CHAN 16-SOIC rohs version IC MUX/DEMUX 8X1 16SOIC	<a href="#">MC14051BDR2GOSDK R-ND</a>	MC14051BDR2G
58	1	U10	INA114/BB	soic16	IC PRECISION INSTR AMP SOIC-16	INA114BU-ND	INA114BU
59	1	X1	MA-306 6.000M-C0	HC49/U S	QUARZO 6MHZ HC49/US SMD, new CRYSTAL 6.000 MHZ 18PF SMD	<a href="#">887-1045-1-ND</a>	9C-6.000MAAJ-T

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60	1	X2	MA-306 20.000M-C0	HC49/US	QUARZO 20MHZ HC49/US SMD, new ECS-200-16-5PX-TR attenzione 16pF capacitance	<a href="#">XC1291CT-ND</a>	ECS-200-16-5PX-TR
70	1	box1			BOX ABS 5.80X3.50X0.98" GREY	<a href="#">HM1162-ND</a>	1553DGY
71	1	USB cable			CABLE USB 2.0 A-B MALE BLACK 2M	<a href="#">AE10618-ND</a>	AK672/2-2-BLACK-R