



Item	Part No.	Qty	Designation	Family	Value	Type	Mat.	Tol.	Package	Rating	Ref. Manufacturer	Ref. Manu. Part No.	Distributor	Dist. Part Number	
1	1600,034	1	BR1	DIODE	B40D	RECT			DIL 4	40V 1A0	Semikron	B40D	Rapid Electronics	47-2826	
2	1253,220	10	C1 C2 C3 C4 C5 C6 C7 C8 C9 C10	CAP	22p	ML	NP0	K	1206	100V	AVX	12061A220JAT2A	Farnell	499-249	
3	1287,004	12	C11 C15 C18 C19 C20 C21 C22 C23 C24 C25 C26 C28	CAP	100n	ML	POLY	K	5mm	63V	Arcotronics	R82DC3100AA50K	Rapid Electronics	497006	
4	1257,104	6	C12 C13 C14 C16 C17 C27	CAP	100n	ML	X7R	K	1206	50V	Rohm	MCH315C104K	Flint	MCH315C104K	
5	1248,010	2	C29 C30	CAP	100u	RAD	ELEC	IM	E	16V	Panasonic	EEEF1C101P	Farnell	969-4404	
6	1254,202	6	C31 C32 C36 C37 C41 C42	CAP	10u	ML	X7R	K	1206	10V	Kemet	C1206C106K8RAC	Farnell	128-8264	
7	1254,205	6	C33 C34 C35 C38 C39 C40	CAP	100n	ML	X7R	K	1206	50V	AVX	12065C104KAZ2A	Farnell	130-1906	
8	1601,005	5	D1 D2 D3 D4 D5	DIODE	1N4148				DO-35	100V 150mA	Vishay	1N4148-TAP	Rapid Electronics	47-3308	
9	1600,028	3	D8 D9 D10	DIODE	BAV99				SOT-23	85V 200mA	Infineon	BAV99	Farnell	105-6504	
10	1600,035	207	D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 F1 K1 K2 XX9 XX11 XX12 XX13 XX14 XX15 XX16 XX17 XX18 XX20 XX21 XX22 XX23 XX24 XX25 XX26 XX27 XX29 XX30 XX31 XX32 XX33 XX34 XX35 XX36 XX37 XX38 XX39 XX40 XX41 XX42 XX43 XX44 XX45 XX46 XX47 XX48 XX49 XX50 XX51 XX52 XX53 XX54 XX55 XX56 XX57 XX58 XX59 XX60 XX61 XX62 XX63 XX64 XX65 XX66 XX67 XX68 XX69 XX70 XX71 XX72 XX73 XX74 XX75 XX76 XX77 XX78 XX79 XX80 XX81 XX82 XX83 XX84 XX85 XX86 XX87 XX88 XX89 XX90 XX91 XX92 XX93 XX94 XX95 XX96 XX97 XX98 XX99 XX100 XX101 XX102 XX103 XX104 XX105 XX106 XX107 XX108 XX109 XX110 XX111 XX112 XX113 XX114 XX115 XX116 XX117 XX118 XX119 XX120 XX121 XX122 XX123 XX124 XX125 XX126 XX127 XX128 XX129 XX130 XX131 XX132 XX133 XX134 XX135 XX136 XX137 XX138 XX139 XX140 XX141 XX142 XX143 XX144 XX145 XX146 XX147 XX148 XX149 XX150 XX151 XX152 XX153 XX154 XX155 XX156 XX157 XX158 XX159 XX160 XX161 XX162 XX163 XX164 XX165 XX166 XX167 XX168 XX169 XX170 XX171 XX172 XX173 XX174 XX175 XX176 XX177 XX178 XX179 XX180 XX181 XX182 XX183 XX184 XX185 XX186 XX187 XX188 XX189 XX190 XX191 XX192 XX193 XX194 XX195 XX196	DIODE	BAV70					SOT-23	70V 200mA	Fairchild Semiconductor	BAV70	Farnell	984-3604
11	1153,025	1	F2	FUSE	500mA	PTC			5.1mm	60V 500mA	Bourns	MF-R050	Rapid Electronics	26-4610	
12	1181,300	1	F3	FILTER	50VDC		GD		PCB 0.1"	7ADC	Murata	BNP002-02	Farnell	952-6927	
13	1840,084	5	IC1 IC2 IC3 IC4 IC5	IC	PIC18F452	MCU			DIL 40	5V5	Microchip	PIC18F452-I/P	Rapid Electronics	73-3306	
14	1836,003	2	IC6 IC7	IC	FM25640	FRAM			SOIC - 8P	5V0	Ramtron	FM25640-G	Farnell	121-0790	
15	1705,518	6	IC12 IC13 IC14 IC15 IC16 IC17	IC	MCP6284	QUAD OP-AMP			SOIC-14	5V5 30mA	Microchip	MCP6284-E/SL	Farnell	143-9461	
16	1303,052	1	J3	CON	2W	HEADER			0.1" STF	250V 4A0	Molex	22-27-2021	Farnell	973-1148	
17	1333,050	1	J4	CON	2W	SKT RC 45D			5mm	16A	Metway	645TDS02			
18	1303,059	4	J5 J6 J9 J10	CON	3W	HEADER			0.1" STF	250V 4A0	Molex	22-27-2031	Farnell	973-1156	
19	1303,005	2	J7 J11	CON	5W	HEADER			0.1" ST		Toby	THS-05-R	Toby	THS-05-R	
20	1303,103	3	J13 J14 J21	CON	3W	HEADER	PLASTIC		0.1" RA LA	250V 2A5	Molex	22-05-7038	Farnell	973-1610	
21	1303,006	3	J15 J17 J20	CON	6W	HEADER			0.1" ST	3A0	Toby	THS-06-R	Toby	THS-06-R	
22	1303,106	1	J27	CON	6W	HEADER			0.1" RA		Molex	22-05-7068	Farnell	973-1644	
23	1400,019	5	L1 L2 L5 L6 L7	LED	RED	ST			3mm 0.1"		Kingbright	L-7104LSRD	Rapid Electronics	56-0415	
24	1400,017	1	L3	LED	RED	ST			3mm 0.1"		Kingbright	L-7104IT	Rapid Electronics	56-0550	
25	1400,018	1	L4	LED	GRN	ST			3mm 0.1"		Kingbright	L-7104GT	Rapid Electronics	56-0555	
26	0248,000	1	PCB1		Issue 7										



Item	Part No.	Qty	Designation	Family	Value	Type	Mat.	Tol.	Package	Rating	Ref. Manufacturer	Ref. Manu. Part No.	Distributor	Dist. Part Number
27	1518,104	7	R1 R2 R4 R7 R29 R30 R31	RES	10K	ML	MF	F		350V 0W5	Welwyn	MFR4-10KFI	Farnell	109-9988
28	1504,104	6	R3 R12 R16 R32 R33 R34	RES	10K		MF	G	1206	200V 0W25	Welwyn	WCR 1206-10KGI	Farnell	110-0218
29	1518,103	2	R5 R6	RES	1K0	ML	MF	F		350V 0W5	Welwyn	MFR4-1K0FI	Farnell	109-9893
30	1504,011	1	R8	RES	10R		MF	G	1206	200V 0W25	Welwyn	WCR 1206-10RGI	Farnell	110-0138
31	1518,204	2	R9 R10	RES	20K	ML	MF	F		350V 0W5	Welwyn	MFR4-20KFI	Farnell	109-9996
32	1518,105	4	R11 R13 R14 R15	RES	100K	ML	MF	F		350V 0W5	Welwyn	MFR4-100KFI	Farnell	110-0015
33	1504,472	4	R17 R22 R23 R25	RES	4K7		MF	G	1206	200V 0W25	Welwyn	WCR 1206-4K7GI	Farnell	110-0209
34	1504,221	5	R18 R19 R20 R21 R24	RES	220R		MF	G	1206	200V 0W25	Welwyn	WCR 1206-220RGI	Farnell	110-0173
35	1504,103	3	R26 R27 R28	RES	1K0		MF	G	1206	200V 0W25	Welwyn	WCR 1206-1K0GI	Farnell	110-0192
36	1518,472	5	R35 R36 R37 R38 R39	RES	4K7	ML	MF	F		350V 0W5	Welwyn	MFR4-4K7FI	Farnell	109-9979
37	1518,201	2	R41 R42	RES	200R	ML	MF	F		350V 0W5	Welwyn	MFR4-200RFI	Farnell	109-9874
38	1504,102	3	R43 R47 R51	RES	1K0	ML	MF	F	1206	200V 0W25	Phycomp	2.32272E+11	Farnell	924-0942
39	1504,473	3	R44 R48 R52	RES	47K	ML	MF	F	1206	200V 0W25	Phycomp	2.32272E+11	Farnell	924-1043
40	1504,562	3	R45 R49 R53	RES	5K6	ML	MF	F	1206	200V 0W25	Phycomp	2.32272E+11	Farnell	923-6864
41	1504,474	3	R46 R50 R54	RES	4K7	ML	MF	F	1206	200V 0W25	Phycomp	2.32272E+11	Farnell	924-0985
42	1640,030	1	REG1	IC	L78S05	VREG			TO-220	5V0	ST Microelectronics	L78S05CV	Rapid Electronics	47-3302
43	1560,103	3	RN1 RN2 RN3	RES	47K	PK		G	8W 0.1"	200V 0W20	Bourns	4608X-101-473LF	Farnell	935-6479
44	1560,102	1	RN6	RES	10K	PK		G	8W 0.1"	200V 0W20	Bourns	4608X-101-103LF	Farnell	935-6371
45	1222,019	16	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16	SW	PB	SPST-NO				12V 50mA	APEM	DTS-2-4-N	RS	378-6757
46	1910,140	5	SKT_IC1 SKT_IC2 SKT_IC3 SKT_IC4 SKT_IC5	SKT	40W	IC			DIL 0.6" TP		Harwin	D2840-42	Farnell	102-3063
47	1630,846	3	T1 T2 T3	TRANS	BC846B	NPN			SOT-23	80V 100mA	Diodes Incorporated	BC846B-7-F	Rapid Electronics	47-3354
48	1632,600	1	TR1	TRANS	FDV301N	N DMOS			SOT-23		Fairchild	FDV301N	RS	354-4907
49	1561,024	1	VR1	RES	10K	VAR			0.1" SIL	300V 0W5	Bourns	3296W-1-103_LF	Rapid Electronics	68-0330
50	1900,049	5	X1 X2 X3 X4 X5	XTAL	10.0MHz			30ppm	HC49/4H	30pF	C-MacC-Mac	XTAL003169	RS	226-1746

Legend

- 1) All components highlighted in red indicates Development only components
- 2) All components highlighted in Blue are an alternative source/supplier.