



Bill of Material IP18 v2 PC Board

Items	Quantity	Schematic Reference	Description
1	2	C2,C1	Capacitor 10uF 10% 16v Tantale low ESR SMT 1210
2	7	C3,C24,C42,C68,C94,C120,C146	Capacitor 4.7uF 6,3v 20% X5R SMT 0603
3	99	C4,C6,C10,C11,C14,C15,C16,C17,C18,C19,C20,C22,C23,C25,C26,C27,C28,C29,C31,C33,C35,C36,C37,C39,C41,C43,C45,C47,C48,C49,C50,C52,C54,C55,C57,C59,C61,C62,C63,C65,C67,C69,C71,C73,C74,C75,C76,C78,C80,C81,C83,C85,C87,C88,C89,C91,C93,C95,C97,C99,C100,C101,C102,C104,C106,C107,C109,C111,C113,C114,C115,C117,C119,C121,C123,C125,C126,C127,C128,C130,C132,C133,C135,C137,C139,C140,C141,C143,C145,C147,C149,C151,C152,C153,C154,C156,C158,C159,C160	Capacitor 0.1uF 10v 10% X7R SMT 0603
4	2	C7,C8	Capacitor 33pF 25v 10% NPO SMT 0603
5	19	C9,C12,C13,C21,C44,C51,C53,C70,C77,C79,C96,C103,C105,C122,C129,C131,C148,C155,C157	Capacitor 1.0uF 16v 10% X5R SMT 0603

6	20	C30,C32,C34,C46,C56,C58, C60,C72,C82,C84,C86,C98, C108,C110,C112,C124,C134, C136,C138,C150	Capacitor 100uF 6,3v Low ESR 20% Aluminium Radial SMT 5x5,8
7	10	C38,C40,C64,C66,C90,C92, C116,C118,C142,C144	Capacitor 18pF 25v 10% NPO SMT 0603
8	1	D1	Diode BAT54 SMT SOT-323
9	18	IPOD CONN1,IPOD CONN2, IPOD CONN3,IPOD CONN4, IPOD CONN5,IPOD CONN6, IPOD CONN7,IPOD CONN8, IPOD CONN9,IPOD CONN10, IPOD CONN11,IPOD CONN12, IPOD CONN13,IPOD CONN14, IPOD CONN15,IPOD CONN16, IPOD CONN17,IPOD CONN18	iPod Connector
10	1	JP1	Molex SDA-41792-0004
11	1	JP2	
12	1	J0	USB Connector 5 pins Mini B Receptacle SMT
13	4	J1,J2,J4,J6	USB Connector 4 pins A Receptacle
14	1	LED13	Led Green
15	2	R1,R2	Resistor 330 ohms 5% 1/16W SMT 0603
16	32	R4,R37,R38,R42,R46,R51, R52,R73,R74,R78,R82,R87, R88,R109,R110,R114,R118, R123,R124,R145,R146,R150, R154,R159,R160,R181,R182, R186,R190,R195,R196,R206	Resistor 100K 5% 1/16W SMT 0603
17	7	R6,R17,R58,R94,R130,R166, R202	Resistor 1M 5% 1/16W SMT 0603
18	6	R7,R56,R92,R128,R164, R200	Resistor 12.0K 1% 1/16W SMT 0603

19	75	R8,R9,R10,R11,R13,R14, R15,R16,R18,R19,R20,R22, R23,R24,R25,R26,R30,R31, R32,R36,R39,R40,R41,R53, R54,R55,R57,R62,R66,R67, R68,R72,R75,R76,R77,R89, R90,R91,R93,R98,R102, R103,R104,R108,R111,R112, R113,R125,R126,R127,R129, R134,R138,R139,R140,R144, R147,R148,R149,R161,R162, R163,R165,R170,R174,R175, R176,R180,R183,R184,R185, R197,R198,R199,R201	Resistor 10K 5% 1/16W SMT 0603
20	26	R12,R21,R47,R48,R49,R50, R83,R84,R85,R86,R119, R120,R121,R122,R155,R156, R157,R158,R191,R192,R193, R194,R207,R208,R209,R210	Resistor SMT 0603 - Do Not Populate
21	20	R27,R33,R43,R59,R63,R69, R79,R95,R99,R105,R115, R131,R135,R141,R151,R167, R171,R177,R187,R203	Resistor 47K 5% 1/16W SMT 0603
22	20	R28,R34,R44,R60,R64,R70, R80,R96,R100,R106,R116, R132,R136,R142,R152,R168, R172,R178,R188,R204	Resistor 15.0K 1% 1/16W SMT 0603
23	20	R29,R35,R45,R61,R65,R71, R81,R97,R101,R107,R117, R133,R137,R143,R153,R169, R173,R179,R189,R205	Resistor 8.2K 1% 1/16W SMT 0603
25	20	T1,T2,T7,T8,T10,T11,T16, T17,T19,T20,T25,T26,T28, T29,T34,T35,T37,T38,T43, T44	Transistor BC858 SMT SOT-363

26	25	T3,T4,T5,T6,T9,T12,T13, T14,T15,T18,T21,T22,T23, T24,T27,T30,T31,T32,T33, T36,T39,T40,T41,T42,T45	Transistor DTC143 SMT SOT-323
27	1	U1	Voltage regulator 3,3v LT1086 SMT TO-263
28	1	U3	USB Hub Controler USB2517 SMT QFN64 9x9
29	2	U4,U7	Logic 74HC14 SMT SOT-363
30	1	U6	NE555 SMT TSSOP8
31	10	U8,U10,U12,U14,U16,U18, U20,U22,U24,U26	Power Switch MIC2026-1 SMT SO8
32	5	U9,U13,U17,U21,U25	USB Hub Controler USB2514B SMT QFN36 6x6
33	6	U11,U15,U19,U23,U27,U30	EEPROM I2C 24C04 SMT SO8
34	2	U29,U28	Logic 74HC86 SMT US8
35	6	Y1,Y2,Y3,Y4,Y5,Y6	Crystal 24.000MHz 50ppm 18pf HC-49US