

#	Quantity	Designator	Description	Preferred Part Number	Footprint	Notes
1	34	C1, C2, C9, C12, C18, C19, C24, C25, C27, C34, C42, C45, C49, C53, C56, C58, C66, C68, C70, C71, C72, C73, C74, C75, C76, C83, C85, C86, C87, C90, C91, C92, C94, C97	Ceramic Chip Capacitor 0402 2.2uF 6.3V 20% X5R	TY RM JMK105 BJ225MV-F	CAPC.0402	
2	1	C3	Ceramic Chip Capacitor 0201 0.22uF 6.3V 20% X5R	TY JMK063BJ224MP-F	CAPC.0201	DNP
3	48	C4, C5, C7, C8, C13, C14, C15, C16, C17, C20, C26, C28, C29, C30, C31, C35, C36, C37, C38, C39, C40, C41, C43, C44, C46, C47, C48, C50, C51, C52, C57, C59, C60, C61, C62, C63, C64, C67, C69, C77, C78, C79, C80, C81, C84, C88, C95, C98	Ceramic Chip Capacitor 0201 0.22uF 6.3V 20% X5R	TY JMK063BJ224MP-F	CAPC.0201	
4	7	C6, C21, C22, C23, C55, C82, C96	Ceramic Chip Capacitor 1206 100uF 6.3V 20% X5R	MUR GRM31CR60J107ME39L	CAPC.1206	
5	2	C10, C11	Cap 15pF 50VDC COG 5% SMD 0402	AVX 04025A150JAT2A	CAPC.0402	
6	2	C32, C33	Ceramic Chip Capacitor 0402 27pF 25V 10% COG	AVX 04023A270KAT2A	CAPC.0402	
7	4	C54, C65, C89, C93	Ceramic Chip Capacitor 0402 2.2uF 6.3V 20% X5R	TY RM JMK105 BJ225MV-F	CAPC.0402	DNP
8	1	D1	Blue LED Vf=2.7V 0603 SMD	LTP LTST-C193TBKT-5A	LED_LITE-LTST-C191TBKT	
9	4	D2, D3, D9, D10	LED, Red, LTST-C190CKT, 0603	LTP LTST-C190CKT	LED_LITE-LTST-C191TBKT	
10	4	D4, D5, D12, D15	Polymer ESD 0402	TE PESD0402-140	RESC.0402	
11	1	D6	Yellow LED	LTP LTST-C190YKT	LED_LITE-LTST-C191TBKT	
12	1	D7	Green LED	LTP LTST-C190GKT	LED_LITE-LTST-C191TBKT	
13	1	D8	Silicon Switching Diode for High-Speed Switching	INF BAS16	SOT-23	
14	2	D11, D14	PolyZen Polymer Protected Zener Diode 5.6V 1.3A	TE ZEN056V130A24LS	PolyZen	
15	2	D13, D16	DFLS130L-7 in a PowerDI_123 Vf=.3	Diodes Inc. DFLS130L-7	PowerDI_123	
16	1	FB1	Chip Ferrite Bead 0603 75 ohm, 300mA	MUR BLM18BA750SN1D	FBC.0603	
17	3	G1, G2, TP1	Test Pad	N/A	TP	
18	1	J1	RJ45 10/100 , Integrated Magnetics, G/Y LEDs	AMP 5-1840406-8	PULSE_J0006D21BNL	
19	1	J2	0.1" 0.230"post 2-Pin Header, Surface Mount	SAT TSM-102-01-L-SV	CON_SAM-TSM-102-SV	DNP
20	1	J3	CONN RCPT MICRO USB TYPE AB RA	TYCO 1981584-1	USB_AB_1981584	
21	2	J4, J5	Conn Socket Strip RCP 12 POS 2.54mm Solder ST SMD	TYCO 5-147105-6	2.54x2.54_12POS_SMT	
22	1	J6	2.0mm 7x2 shrouded header	MLX 87832-1420	CON_MLX-87332-1420	
23	2	L1, L2	INDUCTOR CER ML 2.2UH 600MA 0805	MUR LQM21PN2R2MCO0D	CAPC.0805	
24	1	P1	Connector Type A USB RA SMT	TE 1734080	USB_A_RA	
25	9	R1, R4, R20, R21, R32, R36,	Chip Resistor 0402 4K87 1/16W	DAL CRCW04024K87FKED	RESC.0402	
26	4	R2, R10, R16, R27	Chip Resistor 0402 300R 1/16W, Chip Resistor 0402 300R 1/16W 1%	DAL CRCW0402300RJNED	RESC.0402	
27	2	R3, R5	Chip Resistor 0402 100R 1/16W 5%	DAL CRCW0402100RJNED	RESC.0402	
28	1	R6	Chip Resistor 0402 1.50K 1/16W 1%	DAL CRCW04021K50FKED	RESC.0402	
29	6	R7, R9, R12, R13, R14, R22	Chip Resistor 0402 22.1R 1/16W	DAL CRCW040222R1FKED	RESC.0402	
30	13	R8, R24, R25, R26, R28, R29, R30, R31, R34, R35, R37, R38, R39	Chip Resistor 0402 0R0 1/16W	DAL CRCW04020000Z0ED	RESC.0402	
31	1	R11	Chip Resistor 0402 681R 1/16W	DAL CRCW0402681RFKED	RESC.0402	
32	2	R15, R17	Chip Resistor 0402 100K 1/16W 1%	DAL CRCW0402100KFKED	RESC.0402	
33	3	R18, R19, R40	Chip Resistor 0402 4K87 1/16W	DAL CRCW04024K87FKED	RESC.0402	DNP
34	1	R23	Chip Resistor 0402 22.1R 1/16W	DAL CRCW040222R1FKED	RESC.0402	DNP
35	1	R33	Chip Resistor 0402 0R0 1/16W	DAL CRCW04020000Z0ED	RESC.0402	DNP
36	1	RP1	4-Resistor Array 3.2x1.6mm Not Populated	Bourns CAY16-472J4LF	RPAK4LCC	DNP
37	1	RP2	4-Resistor Array 3.2x1.6mm 49.9 ohm	BNS CAT16-49R9F4LF	RPAK4LCC	
38	1	RP3	4-Resistor Array 3.2x1.6mm	Bourns CAY16-472J4LF	RPAK4LCC	
39	1	SW1	4CH SMT DIP SW	TE 1571983-4	4CH SMT DIP SW	
40	2	SW4, SW5	SW_PB_SPST_4POS_SMT	TYCO 8-1437565-0	SW_PB_SPST_4POS_SMT	

41	1	U1	Programmable 1-PLL VCXO Clock Synthesizer	CDCE913PW	TSSOP65P640X120-14N	
42	1	U2	128Mbit SPI NOR in SO8W	NUM N25Q128A13BSE40F	SO8W	
43	1	U3	USB to JTAG controller	ATL ATMEGA16U2-MUR	QFN50P500X500X100-32N	
44	1	U4	Xilinx Spartan-6 FPGA, CS324 BGA, speed-grade 2	XLX XC6SLX9-2CSG324	CSG324	
45	1	U5	512Mb 32M x 16 Mobile Low-Power DDR SDRAM	MIC MT46H32M16LFBF-5 IT:C	VFBGA-60	
46	1	U6	Single Port 10/100 Ethernet Transceiver	NSC DP83848JSQ/NOPB	QFN127P600-8N	
47	1	U7	Pow Man Unit w/2 .4A Step-Down & 2 LDO	TI TPS65708YZH	BGA16C50P4X4_230X230X62	
48	1	U8	Single-Chip USB to UART Bridge	SLL CP2102-GM	QUAD-MLP28	
49	1	X1	Crystal 27MHz 12pF 50 Ohm 2-Pin HC-49/US	Kyocera HC49SFWB27000H	XTAL_M5032X10N	
50	1	X2	CRYSTAL 8.0 MHZ 20PF SMD	FOX FQ7050B-8.000	FOX FQ7050	
51	1	X3	XTAL 3.2 x 2.5mm Body, pins 1 & 3 connect, 18pF, Ftolerance = 20ppm	FOX FX325BS-25.000MHZ (Order # 603-25-13)	XTAL3225	
52	1	X4	Low-Cost Fixed-Frequency EconOscillator	MAX DS1088LU-66+	uSOP8	DNP
53	1	PCB	S6MB-LX9 RevB PCB	SB-S6MB-LX9-PCB-B		
54	1	BAG	Anti-static Bag 2"x4" minimum	N/A		
55	1	LABEL-BC	White exterior Label for Serial Num and Part Num (~2"x3")	N/A		
56	1	LABEL-SN	Small for Serial number only, placed directly on finished PCB	N/A		