

Item	Designator	Description	Manufacturer	PartNumber	Quantity
1	IPC	Printed Circuit Board	Any	XX7877	1
2	C1, C2	CAP, AL, 470uF, 16V, +/-20%, SMD	Nippon Chemi-Con	EMVY160ADA471MHA0G	2
3	C3, C60, C62	CAP, CERM, 1uF, 6.3V, +/-10%, X5R, 0603	MuRata	GRM185R60J105KE26D	3
4	C4, C61, C63	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	MuRata	GRM185R61C105KE44D	3
5	C5	CAP, CERM, 1000pF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C102KA01D	1
6	C6, C7, C21, C26, C41, C42, C64, C65, C68, C69	CAP, CERM, 10uF, 16V, +/-20%, X5R, 1206	TDK	C3216X5R1C106M	10
7	C8, C10, C15, C30, C56, C66, C70, C71, C74, C77, C82, C86	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	Kemet	C0603X104K4RACTU	12
8	C11	CAP, CERM, 0.1uF, 25V, +/-10%, X7R,	MuRata	GRM188R71E104KA01D	1
9	C12, C19, C73, C78, C89, C92	CAP, CERM, 100pF, 100V, +/-5%, COG/NPO, 0603	TDK	C1608COG2A101J	6
10	C13, C14, C31, C54, C55, C75, C76, C80, C81	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1206	MuRata	GRM31CR60J107ME39L	9
11	C17, C94	CAP, CERM, 0.1uF, 25V, +/-10%, X5R,	MuRata	GRM188R61E104KA01D	2
12	C18	CAP, CERM, 2.2uF, 16V, +/-10%, X5R,	MuRata	GRM188R61C225KE15D	1
13	C20	CAP, CERM, 0.01uF, 6.3V, +/-10%, X7R, 0603	MuRata	GRM188R70J103KA01D	1
14	C22, C38	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C105KA12D	2
15	C24	CAP, CERM, 0.1uF, 100V, +/-10%, X7R,	TDK	C2012X7R2A104K	1
16	C25, C40, C49, C50	CAP, CERM, 0.1uF, 100V, +/-10%, X7R,	MuRata	GRM188R72A104KA35D	4
17	C27, C32, C39, C51	CAP, CERM, 100pF, 50V, +/-5%, COG/NPO, 0603	AVX	06035A101JAT2A	4
18	C33, C52, C95	CAP, CERM, 0.01uF, 100V, +/-20%, X7R, 0603	AVX	06031C103MAT2A	3
19	C34, C44	CAP, CERM, 0.039uF, 25V, +/-10%, X7R, 0603	AVX	06033C393KAT2A	2
20	C36	CAP, CERM, 1300pF, 100V, +/-5%, X7R, 0603	AVX	06031C132JAT2A	1
21	C37	CAP, CERM, 0.47uF, 16V, +/-10%, X7R,	Kemet	C0603C474K4RACTU	1
22	C43	CAP, CERM, 680pF, 50V, +/-5%, COG/NPO, 0603	Kemet	C0603C681J5GACTU	1

23	C46, C47, C48, C58, C59, C84,	CAP, CERM, 10uF, 6.3V, +/-20%, X5R,	TDK	C1608X5R0J106M	7
24	C57	CAP, CERM, 1000pF, 50V, +/-5%, COG/NPO, 0603	TDK	C1608C0G1H102J	1
25	C83	CAP CER 10UF 16V 20% X5R 0603	Taiyo Yuden	EMK107BBJ106MA-T	1
26	C90, C93	CAP, CERM, 2700pF, 100V, +/-5%, X7R, 0603	AVX	06031C272JAT2A	2
27	C91	CAP, CERM, 0.18uF, 25V, +/-10%, X7R,	MuRata	GRM188R71E184KA88D	1
28	D1, D2, D5	Diode, Schottky, 30V, 0.2A, SOD-123	ON Semiconductor	BAT54T1G	3
29	FID1, FID2, FID3, FID4, FID5, FID6	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	6
30	J1	Header, TH, 100mil, 3x2, Gold plated, 230 mil above insulator	Samtec, Inc.	TSW-103-07-G-D	1
31	L1, L3, L4, L7, L8, L10	Inductor, Shielded, Composite, 330nH, 2.6A, 0.031 ohm, SMD	Coilcraft	XPL2010-331 MLB	6
32	L2, L6	Inductor, ShieldedINDUCTOR POWER 1.0UH 7A SMD	Vishay-Dale	IHLP2525AHER1R0M01	2
33	L5	INDUCTOR POWER 2.5UH 3.5A SMD	Vishay-Dale	IHLP2525AHER2R5M01	1
34	L9, L11	INDUCTOR POWER 4.7UH 9.5A SMD	Vishay-Dale	IHLP4040DZER4R7M01	2
35	L12	Inductor, Shielded Drum Core, Ferrite, 2.5uH, 6.65A, 0.01 ohm, SMD	Coilcraft	MSS1038-252NLB	1
36	Q1, Q2, Q3, Q4	MOSFET N-CH 25V 52A 8-SON	Texas Instruments	CSD16412Q5A	4
37	R1, R51, R52	RES, 1.00 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031R00FKEA	3
38	R2	RES, 8.66 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06038R66FKEA	1
39	R4	RES, 1.50k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K50FKEA	1
40	R6, R55, R59	RES, 97.6k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060397K6FKEA	3
41	R9, R10, R16, R31, R34, R39, R44, R47, R48, R61, R63, R64,	RES, 10.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310K0FKEA	13
42	R11, R23, R26, R27, R30, R33, R36, R40, R41, R50, R82, R83, R84, R85, R86, R87, R88, R89,	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	19
43	R12, R14, R65, R72, R81	RES, 1.00k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-071KL	5
44	R13	RES, 16.2k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060316K2FKEA	1
45	R15	RES, 665 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603665RFKEA	1
46	R19, R37	RES, 1.00 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08051R00FNEA	2

47	R20, R77, R78, R79	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA	4
48	R22	RES, 21.5k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060321K5FKEA	1
49	R24	RES, 33.2k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060333K2FKEA	1
50	R28	RES, 0.02 ohm, 1%, 0.75W, 2010	Ohmite	LVK20R020FER	1
51	R29	RES, 6.65k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06036K65FKEA	1
52	R35	RES, 1.24k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K24FKEA	1
53	R38, R74	RES, 1.0k ohm, 5%, 0.1W, 0603	Yageo America	RC0603JR-071KL	2
54	R45	RES, 4.22k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-074K22L	1
55	R46	RES, 0.009 ohm, 2%, 1W, 2512	Susumu Co Ltd	KRL3264-C-R009-G-T1	1
56	R49	RES, 4.87k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K87FKEA	1
57	R66, R71	RES, 4.53k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K53FKEA	2
58	R73	RES, 4.02k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K02FKEA	1
59	R80	RES, 7.87k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06037K87FKEA	1
60	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17	Terminal, Turret, TH, Double	Keystone	1502-2	17
61	TPS1, TPS3, TPS5, TPS6, TPS7, TPS9, TPS17, TPS19, TPS22, TPS23, TPS26, TPS27, TPS28,	Test Point, TH, Miniature, Red	Keystone	5000	15
62	TPS2, TPS8, TPS11, TPS16, TPS20, TPS24	Test Point, TH, Miniature, Black	Keystone	5001	6
63	TPS4, TPS21, TPS25, TPS30, TPS37, TPS38	Test Point, TH, Miniature, White	Keystone	5002	6
64	U1	IC OSC MONO TIMING 3MHZ 8-SOIC	National Semiconductor	LMC555CMX	1
65	U2, U7, U8	IC REG BUCK SYNC ADJ 5A LLP28	Texas Instruments	LM21305SQE/NOPB	3
66	U3	Series of Adjustable Micropower Voltage Regulators, 8-pin LLP	National Semiconductor	LP2951CSD	1
67	U4	IC CTRL SYNC BUCK DUAL 32-LLP	National Semiconductor	LM5119PSQE/NOPB	1
68	U5	IC CONV DDR DDR2 DDR3 10SON	Texas Instruments	TPS51200DRCR	1
69	U6	1A SIMPLE SWITIC REG BUCK ADJ 2.0A 10LLP	National Semiconductor	LMR12020XSD/NOPB	1
70	U9	Power Sequencer, 8-pin MSOP	National Semiconductor	LM3881MM	1
71	C9, C23, C28, C67, C72, C87	CAP, CERM, 10uF, 16V, +/-20%, X5R, 1206	TDK	C3216X5R1C106M	0

72	C16, C29, C53, C79, C88	CAP, CERM, 2700pF, 100V, +/-5%, X7R, 0603	AVX	06031C272JAT2A	0
73	C35, C45	CAP, CERM, 100pF, 50V, +/-5%, COG/NPO, 0603	MuRata	GRM1885C1H101JA01D	0
74	D3, D4, D6, D7	Diode, Schottky, 30V, 0.2A, SOD-123	ON Semiconductor	BAT54T1G	0
75	R3, R18, R21, R53, R54, R58	RES, 1.00 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031R00FKEA	0
76	R5, R8, R57, R62	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	0
77	R7, R56, R60	RES, 1.0 ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW08051R00JNEA	0
78	R25, R43	RES, 1.00 ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW12061R00FNEA	0
79	R68, R69, R70	RES, 4.53k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K53FKEA	0

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