

TITLE: Bill of Materials									
BOM NO: 05-074836-01-a.csv									
DATE: 07/17/2024									
DESIGN: 02_074836a_top									
TEMPLATE: Z:\allegro\v174_site\cdssetup\template.bom									
CALLOUT: C:\tmp\20_074836a\worklib\02_074836a_top\bom\74836.callouts									
ITEM#	Qty	WW_PN	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN	HLM_STATUS	DNI
1	1	08_074836a	PCB	?	?	Analog Devices Supplied	08_074836a	N/A	
2	2	E035948	CAP CER 4.7uF 25V 10% X5R 0603 AEC-Q200	4.7uF	C1,C2	MURATA	GRT188R61E475KE13D	REL	
3	1	E013782	CAP CER 1000pF 50V 10% X8R 0603	1000pF	C10	TDK	C1608X8R1H102K080AA	REL	
5	1	E024637	CAP CER 0.033uF 50V 5% X7R 0603	0.033uF	C14	AVX CORPORATION	06035C3331A2A	REL	
6	3	E013746	CAP CER 0.1uF 25V 10% X7R 0603	0.1uF	C3,C4,C17	KEMET	C0603C104K3RACTU	REL	
7	14	E031432	NRND - CAP CER 0.22uF 100V 10% X7S 0603 AEC-Q200	0.22uF	C19,C20,C21,C22,C23,C26,C27,C28,C29,C30,C31,C32,C33,C34	TAIYO YUDEN	HMK107C7224KAHTE	RWC	
8	1	E024908	CAP CER 0.1uF 100V 10% X7R 0603	0.1uF	C25	MURATA	GRM188R72A104KA35D	REL	
9	2	E042649	CAP CER 1000pF 25V 10% X7R 0603	1000pF	C5,C7	AVX CORPORATION	06033C102KAT2A	REL	
10	2	E061932	CAP ALUM POLY 150UF 50V 20% 10.3X12.8MM AEC-Q200	150UF	CIN1,CIN2	PANASONIC SEMICONDUCTOR SOLUTIONS	EEH-ZU1H151P	REL	
11	6	E022361	CAP CER 10uF 50V 10% X7R 1210	10uF	CIN3,CIN4,CIN5,CIN6,CIN7,CIN8	MURATA	GRM32ER71H106KA12L	REL	
12	12	E044329	CAP CER 10UF 100V 10% X7S 1210	10UF	COUT1,COUT2,COUT7,COUT8,COUT11,COUT12,COUT14,COUT18,COUT25,COUT26,COUT29,COUT30	MURATA	GRM32EC72A106KE05L	REL	
13	12	E014208	CAP CER 1uF 100V 10% X7S 0805	1uF	COUT9,COUT10,COUT13,COUT15,COUT16,COUT17,COUT19,COUT20,COUT21,COUT22,COUT23,COUT24	TDK	C2012X752A105K125AB	REL	
17	15	E031108	CONN-PCB SOLDER TERMINAL TEST POINT TURRET 0.094" MTG. HOLE PCB 0.062 INCH THK	2501-2-00-80-00-00-07-0	E1,E2,E3,E4,E5,E6,E7,E8,E9,E10,E11,E12,E13,E16,E17	MILL-MAX	2501-2-00-80-00-00-07-0	REL	
18	2	E039893	CONN-PCB THREADED BROACHING STUD, 625MIL LENGTH	KFH-032-10ET	J1,J2	PENN ENGINEERING	KFH-032-10ET	REL	
19	4	E012555	CONN-PCB, BANANA JACK, FEMALE, NON-INSULATED, THT, SWAGE, 0.218 INCHES LENGTH	575-4	J3,J4,J5,J6	KEYSTONE ELECTRONICS	575-4	REL	
20	2	E050157	CONN-PCB MMCX JACK STR 50OHM 0-6GHZ	734152063	J7,J8	MOLEX	734152063	REL	
21	2	E061762	IND POWER SHIELDED WIREWOUND, 0.0018 OHM DCR, 25A	3.6UH	L1,L2	COILCRAFT INC.	SER2013-362MLD	REL	
22	2	E043044	CONN-PCB 6POS UNSHROUDED HEADER VERT 2MM PITCH	TMM-103-02-L-D	P1,P2	SAMTEC INC.	TMM-103-02-L-D	REL	
23	4	E060235	CONN-PCB 1POS STEEL SPACER WITH M2X0.4 THD	9774010243R	P10,P11,P12,P13	WURTH ELEKTRONIK	9774010243R	REL	
24	2	E059946	CONN-PCB 3POS MALE HDR UNSHROUDED SINGLE ROW, 2MM PITCH, 3MM SOLDER TAIL	TMM-103-02-G-S	P3,P4	SAMTEC INC.	TMM-103-02-G-S	REL	
25	4	E058016	TRAN MOSFET N-CH GAN 100V 60A	EPC2218	Q1,Q2,Q3,Q4	EFFICIENT POWER CONVERSION CORPORATION	EPC2218	REL	
27	14	E007502	RES SMD 0 Ohm JUMPER 1/10W 0603 AEC-Q200 PRECISION POWER	0	R2,R3,R11,R22,R25,R28,R35,R46,R47,R51,R52,R55,R60,R64	VISHAY	CRCW06030000Z0EA	REL	
28	2	E010181	RES SMD 51 Ohm 1% 1/10W 0603 AEC-Q20C	51	R12,R17	PANASONIC	ERJ-3EKF51R0V	REL	
29	4	E022716	RES SMD 2 Ohm 1% 1/16W 0402	2	R6,R7,R13,R14	YAGEO	RC0402FR-072RL	REL	
30	4	E062941	RES SMD 1 OHM 1% 1/16W 0402	1	R8,R9,R15,R16	VISHAY	CRCW04021R00FKEDC	REL	
31	3	E030873	RES SMD 1MEG Ohm 1% 1/10W 0603 AEC-Q20C	1MEG	R5,R18,R62	VISHAY	CRCW06031M00FKEA	REL	
32	1	E011039	RES SMD 25.5K Ohm 1% 1/10W 0603 AEC-Q20C	25.5K	R19	PANASONIC	ERJ-3EKF2552V	REL	
33	1	E048984	RES SMD 1.4K Ohm 1% 1/10W 0603 AEC-Q20C	1.4K	R20	PANASONIC	ERJ-3EKF1401V	REL	
35	2	E003673	RES SMD 49.9 Ohm 1% 1/10W 0603 AEC-Q20C	49.9	R24,R29	PANASONIC	ERJ-3EKF49R9V	REL	
36	1	E030453	RES SMD 24.9K Ohm 1% 1/10W 0603 AEC-Q20C	24.9K	R36	PANASONIC	ERJ-3EKF2492V	REL	
37	1	E012707	RES SMD 75K Ohm 1% 1/10W 0603 AEC-Q20C	75K	R37	PANASONIC	ERJ-3EKF7502V	REL	
38	1	E003957	RES SMD 15K Ohm 0.1% 1/10W 0603 AEC-Q200 HIGH RELIABILITY	15K	R41	PANASONIC	ERA-3AEB153V	REL	
39	1	E003678	RES SMD 1K Ohm 1% 1/10W 0603 AEC-Q200	1K	R49	PANASONIC	ERJ-3EKF1001V	REL	
40	1	E010279	RES SMD 100K Ohm 1% 1/10W 0603 AEC-Q20C	100K	R57	PANASONIC	ERJ-3EKF1003V	REL	
41	1	E045514	RES SMD 158K Ohm 1% 1/10W 0603 AEC-Q200	158K	R63	VISHAY	CRCW0603158KFKEA	REL	
42	1	E050944	RES SMD 0 OHM JUMPER 2512 AEC-Q200	0	R67	VISHAY	WLSL2512000002EA9	REL	
43	2	E068091	RES SMD 0.002 2% 3W 1225 AEC-Q200	0.002	R51,R52	SUSUMU CO, LTD	KRL6432E-C-R002-G-T1	REL	
44	1	E064946	IC-ADI PRELIM LOW IQ, DUAL ,2-PHASE SYNCHRONOUS BOOST CONTROLLER FOR GAN FETS	LTC7892AUJM#TRPBF	U1	ANALOG DEVICES	LTC7892AUJM#TRPBF	RWC	

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Mechanical Parts									
ITEM#	Qty	WW_PN	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN	HLM_STATUS	DNI
2	1	M042521	HEATSINK 1/8 BRICK 55X20.7X11.4M	?	?	WAKEFIELD-VETTE	567-45AB	REL	
3	2	M039279	WASHER, #10 FLAT STEEL	?	?	KEYSTONE	4703	REL	
4	2	M048369	CONNECTOR RING LUG TERMINAL, 10 CRIMP, NON-INSULATED	?	?	KEYSTONE	8205	REL	
5	2	M063861	THERMAL PAD ULTRA SOFT 10MMX10MM BLUE	?	?	T-GLOBAL TECHNOLOGY	TG-46200-10-10-0.5	REL	
6	4	M048748	STANDOFF, BRD SPT SNAP FIT 15.9MM LENGTH	?	?	KEYSTONE	8834	REL	
7	4	M033288	SHUNT, 2MM JUMPER WITH TEST POINT	?	?	WURTH ELEKTRONIK	60800213421	REL	
8	4	M039278	NUT, HEX STEEL, 10-32 THREAD, 9.27MM OUT DIA	?	?	KEYSTONE	4705	REL	
9	4	M063862	SCREW, MACHINE PAN HEAD PHILLIPS M2 8MM LENGTH	?	?	B&F FASTENER SUPPLY	MPMS 002 0008 PH	REL	
10	4	M026238	WASHER, FLAT, M2, STAINLESS STEEL	?	?	FASTENER EXPRESS	MFWS2-7B2	REL	

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CALLOUT: C:\tmp\20_074836a\worklib\02_074836a_top\bom\74836.callouts							

The following components are part of the PCB or are NOT to be installed

ITEM#	Qty	WW_PN	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN	HLM_STATUS	DNI
			DO NOT INSTALL (TBD_C0603)						
4	9	E000382	PLEASE USE SYM_3 AND/OR SYM_4	TBD0603	C6,C8,C9,C12,C13,C15,C16,C18,C24	TBD0603	TBD0603	REL	DNI
14	4	E044329	CAP CER 10UF 100V 10% X7S 1210	10UF	COUT27,COUT28,COUT31,COUT32	MURATA	GRM32EC72A106KE05L	REL	DNI
15	4	E046041	CAP ALUM POLY 68UF 63V 20% 10X10.2MM AEC-Q200 0.03 OHM 1400MA 4000H	68UF	COUT3,COUT4,COUT5,COUT6	PANASONIC	EEHZC1J680P	REL	DNI
16	2	E057759	DIODE SCHOTTKY 100V 10A, AEC-Q101 COMMON CATHODE TO-277A	SS10PH10-M3/86A	D1,D2	VISHAY	SS10PH10-M3/86A	REL	DNI
26	2	E030873	RES SMD 1MEG Ohm 1% 1/10W 0603 AEC-Q20C	1MEG	R1,R56	VISHAY	CRCW06031M00FKEA	REL	DNI
34	22	E004050	DO NOT INSTALL (TBD_R0603), PLEASE USE SYM_3 AND/OR SYM_4	TBD0603	R4,R21,R23,R26,R27,R30,R31,R32,R33,R34,R38 R40,R42,R43,R44,R45,R48,R50,R53,R54,R58,R61	TBD0603	TBD0603	REL	DNI