

TITLE: Bill of Materials

DATE: 01/27/2026

ITEM#	Qty	LOCATION	DESCRIPTION	MFG	MFG_PN	DNI
1	1		PCB	Analog Devices Supplied	08_084361c	
2	8	C1,C2,C34,C35,C176,C177,C180,C181	CAP ALUM POLY HYBRID 33uF 80V 20% 10X10.2mm AEC-Q200	PANASONIC	EEHZA1K330P	
3	16	C3,C4,C5,C6,C7,C8,C9,C10,C36,C37,C38,C39,C40,C41,C42,C43	CAP CER 4.7uF 100V 10% X7S 1210 AEC-Q200	MURATA	GCM32DC72A475KE02L	
4	36	C12,C20,C45,C53,C69,C70,C71,C72,C73,C74,C75,C76,C77,C78,C79,C80,C81,C82,C83,C84,C87,C88,C89,C90,C91,C92,C93,C94,C95,C96,C97,C98,C99,C100,C101,C102	CAP CER 1UF 100V 10% X7T 0603	MURATA	GRM188D72A105KE01D	
5	12	C32,C33,C65,C66,C85,C86,C103,C104,C178,C179,C182,C183	CAP ALUM POLY HYBRID 47UF 80V 20% 10X10.5MM 1.3A 4000H AEC-Q200	NICHICON CORPORATION	GYA1K470MCW1GS	
6	2	C11,C44	CAP CER 0.1UF 10V 10% X7R 0402	AVX CORPORATION	0402ZC104KAT2A	
7	2	C14,C47	CAP CER 100PF 10V 20% X7R 0402	KYOCERA	0402ZC101MAT2A	
8	2	C15,C48	CAP CER 0.022uF 16V 10% X7R 0402	AVX	0402YC223KAT2A	
9	4	C16,C19,C49,C52	CAP CER 0.47UF 16V 10% X7S 0402 AEC-Q200 LOW ESR	TDK	CGA2B1X7S1C474K050BC	
10	2	C18,C51	CAP CER 0.01uF 50V 10% X7R 0603	PHYCOMP (YAGEO)	2238 586 15636	
11	2	C21,C54	CAP CER 4.7uF 10V 10% X5R 0402 LOW ESR	TDK	C1005X5R1A475K050BC	
12	2	C23,C56	NRND - CAP CER 6.8uF 25V 10% X5R 0603 LOW ESR	TDK	C1608X5R1E685K080AC	
13	16	C24,C25,C26,C27,C28,C29,C30,C31,C57,C58,C59,C60,C61,C62,C63,C64	CAP CER 10UF 100V 10% X7R 1210	TDK	C3225X7R2A106K250AC	
14	4	D1,D2,D3,D4	DIODE SCHOTTKY SINGLE BARRIER	NXP SEMICONDUCTORS	BAT46WJ,115	
15	2	D8,D11	DIO ZENER 5.1V 5%	CENTRAL SEMICONDUCTOR	CMDZ5231B TR PBFREE	
16	2	L1,L2	IND POWER SHIELDED WIREWOUND 6.8UH 15% 100KHZ 30A 0.0024OHM 28X27MM AEC-Q200	WURTH ELEKTRONIK	7443640680	

17	8	Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8	TRAN GAN N-CH ENHANCEMENT MODE POWER 100V 133A 0.00075OHM	EFFICIENT POWER CONVERSION CORPORATION	EPC2361	
18	27	R1,R4,R5,R9,R10,R13,R17,R22,R24 ,R28,R29,R30,R31,R32,R34,R39,R4 0,R43,R47,R52,R54,R58,R59,R60,R 61,R62,R64	RES SMD 0 Ohm JUMPER 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2GE0R00X	
19	2	R12,R42	RES SMD 9.09K Ohm 1% 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2RKF9091X	
20	2	R14,R44	RES SMD 0.002 OHM 2% 3W 2512 AEC-Q200 LONG SIDE TERM	SUSUMU CO, LTD	KRL6432E-M-R002-G-T1	
21	2	R16,R46	RES SMD 1 Ohm 1% 1/10W 0603	YAGEO	RC0603FR-071RL	
22	2	R18,R48	RES SMD 54.9K Ohm 1% 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2RKF5492X	
23	2	R27,R57	RES SMD 100K Ohm 1% 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2RKF1003X	
24	2	R35,R65	RES SMD 475K OHM 1% 1/16W 0402 AEC-Q200	VISHAY	CRCW0402475KFKED	
25	2	R36,R66	RES SMD 10K Ohm 1% 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2RKF1002X	
26	2	R7,R37	RES SMD 301K Ohm 1% 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2RKF3013X	
27	2	R8,R38	RES SMD 10.7K Ohm 1% 1/16W 0402 AEC-Q200	VISHAY	CRCW040210K7FKED	
28	4	R6,R67,R69,R70	RES SMD 1 Ohm 5% 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2GEJ1R0X	
29	2	R68,R71	RES SMD 5.1 Ohm 5% 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2GEJ5R1X	
30	2	R72,R75	RES SMD 21.5K Ohm 1% 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2RKF2152X	
31	2	R73,R76	RES SMD 27.4K OHM 1% 1/16W 0402 AEC-Q200	VISHAY	CRCW040227K4FKED	
32	2	R74,R77	RES SMD 953K OHM 1% 1/16W 0402 AEC-Q200	VISHAY	CRCW0402953KFKED	
33	4	R78,R79,R80,R81	RES SMD 1 OHM 1% 1/16W 0402	VISHAY	CRCW04021R00FKEDC	
34	2	U1,U2	IC-ADI 70V GAN 4-SWITCH BUCK-BOOST PARALLELABLE CONTROLLER WITH INDUCTOR DCR SENSING, PRELIM	ANALOG DEVICES	LT7930AUK#PBF	

Mechanical Parts - For Eval Board Only

ITEM#	Qty	LOCATION	DESCRIPTION	MFG	MFG_PN	DNI
1	16		HEX NUT, BRASS 10-32 THREAD	MCMaster CARR	92671A195	
2	4		STANDOFF, BRD SPT SNAP FIT 15.9MM LENGTH	KEYSTONE	8834	
3	8		CONNECTOR RING LUG TERMINAL, 10 CRIMP, NON- INSULATED	KEYSTONE	8205	
4	8		WASHER, EXT TOOTH LOCK #10, 0.19X0.41X0.03	MCMaster-CARR	98438A230	
5	8	J1,J2,J3,J4,J5,J6,J7,J8	CONN-PCB THREADED BROACHING STUD 10-32 FASTENER 0.625, USE ALT_SYMBOL FOR C450D200 PAD	CAPTIVE FASTENER	CKFH1032-10	

6	8	J12,J13,J14,J15,J16,J17,J18,J19	CONN-PCB MMCX JACK STR 50OHM 0-6GHZ	MOLEX	734152063	
7	8	P1,P2,P3,P4,P5,P6,P7,P8	CONN-PCB 1POS STEEL SPACER WITH M2X0.4 THD	WURTH ELEKTRONIK	9774010243R	
8	15	TP1,TP4,TP5,TP6,TP7,TP8,TP22,TP25,TP30,TP31,TP32,TP33,TP34,TP35,TP36	CONN-PCB SOLDER TERMINAL TURRETS FOR CLIP LEADS	MILL-MAX	2308-2-00-80-00-00-07-0	

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

ITEM#	Qty	LOCATION	DESCRIPTION	MFG	MFG_PN	DNI
1	8	C13,C17,C22,C46,C50,C55,C67,C68	DO NOT INSTALL (C0402) PLEASE USE SYM_3 AND/OR SYM_4	C0402	C0402	DNI
2	4	C196,C197,C198,C199	CAP CER 10UF 100V 10% X7R 1210	TDK	C3225X7R2A106K250AC	DNI
3	8	C206,C207,C208,C209,C210,C211,C212,C213	CAP ALUM POLY HYBRID 33uF 80V 20% 10X10.2mm AEC-Q200	PANASONIC	EEHZA1K330P	DNI
4	6	D7,D10,D13,D14,D15,D16	DIO SCHOTTKY 100V 3A, AEC-Q101	NEXPERIA	PMEG100T030ELPEZ	DNI
5	2	D5,D12	DIO ZNR 5.1V 5% SOD523	CENTRAL SEMICONDUCTOR	CMOZ5L1 TR PBFREE	DNI
6	2	L1_1,L2_1	DO NOT INSTALL			DNI
7	12	R11,R19,R20,R21,R25,R26,R41,R49,R50,R51,R55,R56	DO NOT INSTALL (R0402), PLEASE USE SYM_3 AND/OR SYM_4	R0402	R0402	DNI
8	2	R15,R45	RES SMD 0.002 OHM 2% 3W 2512 AEC-Q200 LONG SIDE TERM	SUSUMU CO, LTD	KRL6432E-M-R002-G-T1	DNI
9	4	R33,R63,R190,R191	RES SMD 0 OHM JUMPER 2W 1225 AEC-Q200 WIDE-TERM	VISHAY	RCA12250000Z0EGLS	DNI
10	4	R2,R3,R82,R83	RES SMD 0 Ohm JUMPER 1/10W 0402 AEC-Q200	PANASONIC	ERJ-2GE0R00X	DNI
11	2	R23,R53	DO NOT INSTALL (R0603), PLEASE USE SYM_3 AND/OR SYM_4	R0603	R0603	DNI