

TITLE: Bill of Materials EVAL-LTC7878-BZ\_REVA

BOM NO: 05-081644-01-a.csv

DATE: 01/13/2025

DESIGN: 02\_081644a\_top

ITEM#	Qty	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN	DNI
1	1	PCB			Analog Devices Supplied	08_081644a	
2	20	CAP ALUM POLY HYBRID 33uF 80V 20% 10X10.2mm AEC-Q200	33uF	C1, C2, C34, C35, C67, C68, C100, C101, C133, C134, C176, C177, C180, C181, C184, C185, C188, C189, C192, C193	PANASONIC	EEHZA1K330P	
3	40	CAP CER 4.7uF 100V 10% X7S 1210 AEC-Q200	4.7uF	C3, C4, C5, C6, C7, C8, C9, C10, C36, C37, C38, C39, C40, C41, C42, C43, C69, C70, C71, C72, C73, C74, C75, C76, C102, C103, C104, C105, C106, C107, C108, C109, C135, C136, C137, C138, C139, C140, C141, C142	MURATA	GCM32DC72A475KE02L	
4	5	CAP CER 0.1uF 10V 10% X7R 0402	0.1uF	C11, C44, C77, C110, C143	AVX CORPORATION	0402ZC104KAT2A	
5	10	CAP CER 1uF 100V 10% X7S 0805	1uF	C12, C20, C45, C53, C78, C86, C111, C119, C144, C152	MURATA	GRJ21BC72A105KE11L	
7	5	CAP CER 100PF 10V 20% X7R 0402	100PF	C14, C47, C80, C113, C146	KYOCERA	0402ZC101MAT2A	
8	5	CAP CER 0.01uF 25V 10% X7R 0402 AEC-Q200	0.01uF	C15, C48, C81, C114, C147	MURATA	GCM155R71E103KA37D	
9	10	CAP CER 1uF 16V 10% 0402 LOW ESR	1uF	C16, C19, C49, C52, C82, C85, C115, C118, C148, C151	TDK	C1005X6S1C105K050BC	
10	5	CAP CER 6800pF 50V 10% X7R 0603	6800pF	C18, C51, C84, C117, C150	YAGEO	CC0603KRX7R9BB682	
11	10	CAP CER 4.7uF 10V 10% X5R 0402 LOW ESR	4.7uF	C21, C23, C54, C56, C87, C89, C120, C122, C153, C155	TDK	C1005X5R1A475K050BC	
12	40	CAP CER 10uF 100V 10% X7R 1210	10uF	C24, C25, C26, C27, C28, C29, C30, C31, C57, C58, C59, C60, C61, C62, C63, C64, C90, C91, C92, C93, C94, C95, C96, C97, C123, C124, C125, C126, C127, C128, C129, C130, C156, C157, C158, C159, C160, C161, C162, C163	TDK	C3225X7R2A106K250AC	
13	20	CAP ALUM POLY HYBRID 47uF 80V 20% 10X10.5MM 1.3A 4000H AEC-Q200	47uF	C32, C33, C65, C66, C98, C99, C131, C132, C164, C165, C178, C179, C182, C183, C186, C187, C190, C191, C194, C195	NICHICON CORPORATION	GYA1K470MCW1GS	
15	1	CAP CER 1uF 100V 10% X7R 1210	1uF	C167	AVX CORPORATION	12101C105KAT2A	
16	1	CAP CER 10uF 25V 10% X7R 1206 AEC-Q200	10uF	C168	TDK	CGA5L1X7R1E106K160AC	
17	4	CAP CER 0.1uF 16V 10% X7R 0402	0.1uF	C169, C170, C173, C174	KEMET	C0402C104K4RACTU	

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18	2	CAP CER 0.47UF 10V 10% X5R 0603	0.47UF	C171, C172	AVX CORPORATION	0603ZD474KAT2A	
19	1	CAP CER 1000pF 25V 5% C0G 0402 EXTREME LOW ESR	1000pF	C175	KEMET	C0402C102J3GACTU	
22	10	DIODE SCHOTTKY SINGLE BARRIER	BAT46WJ, 115	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10	NXP SEMICONDUCTORS	BAT46WJ, 115	
23	8	CONN-PCB THREADED BROACHING STUD 10-32 FASTENER 0.625	CKFH1032-10	J1, J2, J3, J4, J5, J6, J7, J8	CAPTIVE FASTENER	CKFH1032-10	
24	4	CONN-PCB 3POS MALE HDR UNSHROUDED SINGLE ROW, 2MM PITCH, 3MM SOLDER TAIL	TMM-103-02-L-S	JP1, JP2, JP3, JP4	SAMTEC INC.	TMM-103-02-L-S	
25	1	CONN-PCB 8POS MALE HDR UNSHROUDED DUAL ROW ST, 2MM PITCH, 2.80MM SOLDER TAIL	62000821121	JP5	WURTH ELEKTRONIK	62000821121	
26	5	IND POWER WIREWOUND 0.0024OHM DCR, 30A	10UH	L1, L2, L3, L4, L5	WURTH ELEKTRONIK	7443641000	
27	20	TRAN N-CH MOSFET 100V 25A PG-TSON-8-3	ISC022N10NM6ATMA1	M1, M2, M3, M4, M9, M10, M11, M12, M17, M18, M19, M20, M25, M26, M27, M28, M33, M34, M35, M36	INFINEON TECHNOLOGIES	ISC022N10NM6ATMA1	
29	78	RES SMD 0 Ohm JUMPER 1/10W 0402 AEC-Q200	0	R1, R4, R5, R9, R10, R11, R13, R17, R22, R24, R28, R29, R30, R31, R32, R34, R39, R40, R41, R43, R47, R52, R54, R58, R59, R60, R61, R62, R64, R75, R76, R77, R79, R83, R88, R90, R95, R96, R97, R99, R100, R102, R108, R109, R110, R112, R116, R121, R123, R128, R129, R130, R132, R133, R135, R141, R142, R143, R145, R149, R154, R156, R161, R162, R163, R165, R166, R168, R171, R174, R175, R176, R179, R180, R181, R184, R185, R186	PANASONIC	ERJ-2GE0R00X	
31	5	RES SMD 475K OHM 1% 1/16W 0402 AEC-Q200	475K	R35, R65, R103, R136, R169	VISHAY	CRCW0402475KFKED	
32	10	RES SMD 10K Ohm 1% 1/10W 0402 AEC-Q200	10K	R12, R36, R42, R66, R78, R104, R111, R137, R144, R170	PANASONIC	ERJ-2RKF1002X	
33	5	RES SMD 301K Ohm 1% 1/10W 0402 AEC-Q200	301K	R7, R37, R72, R105, R138	PANASONIC	ERJ-2RKF3013X	
34	10	RES SMD 1 Ohm 5% 1/10W 0402 AEC-Q200	1	R6, R67, R69, R70, R73, R94, R106, R127, R139, R160	PANASONIC	ERJ-2GEJ1R0X	
35	5	RES SMD 10.7K Ohm 1% 1/16W 0402 AEC-Q200	10.7K	R8, R38, R74, R107, R140	VISHAY	CRCW040210K7FKED	
36	5	RES SMD 0.003 OHM 1% 3W 2512 AEC-Q200	0.003	R14, R44, R80, R113, R146	SUSUMU CO, LTD	KRL6432E-M-R003-F-T1	
38	5	RES SMD 49.9 Ohm 1% 1/10W 0603 AEC-Q200	49.9	R16, R46, R82, R115, R148	PANASONIC	ERJ-3EKF49R9V	
39	5	RES SMD 69.8K Ohm 1% 1/16W 0402 AEC-Q200	69.8K	R18, R48, R84, R117, R150	VISHAY	CRCW040269K8FKED	
42	5	RES SMD 100K Ohm 1% 1/10W 0402 AEC-Q200	100K	R27, R57, R93, R126, R159	PANASONIC	ERJ-2RKF1003X	
43	5	RES SMD 5.1 Ohm 5% 1/10W 0402 AEC-Q200	5.1	R68, R71, R98, R131, R164	PANASONIC	ERJ-2GEJ5R1X	
45	1	RES SMD 267K Ohm 1% 1/8W 0805 AEC-Q200	267K	R187	PANASONIC	ERJ-6ENF2673V	

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46	1	RES SMD 3.9MEG Ohm 1% 1/16W 0402 AEC-Q200	3.9MEG	R188	VISHAY	CRCW04023M90FKED	
47	1	RES SMD 2.21M OHM 1% 1/16W 0402 AEC-Q200	2.21M	R189	VISHAY	CRCW04022M21FKED	
48	24	CONN-PCB SOLDER TERMINAL TURRETS FOR CLIP LEADS	2308-2-00-80-00-00-07-0	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP22, TP23, TP24, TP25, TP30, TP31, TP32, TP33, TP56, TP57, TP58, TP59, TP73, TP74, TP75, TP76	MILL-MAX	2308-2-00-80-00-00-07-0	
49	5	IC-ADI 70V PARALLELABLE 4-SWITCH BUCK BOOST CONTROLLER WITH INDUCTOR DCR SENSING	LTC7878AUK#PBF	U1, U2, U3, U4, U5	ANALOG DEVICES	LTC7878AUK#PBF	
50	1	IC-ADI 20MA LOW DROPOUT MICROPOWER LINEAR REGULATOR	LT3014ES5#TRPBF	U6	ANALOG DEVICES	LT3014ES5#TRPBF	
51	1	IC-ADI 1 TO 8 OUTPUT, MULTIPHASE SILICON OSCILLATOR WITH SPREAD SPECTRUM MODULATION	LTC6909CMS#PBF	U7	ANALOG DEVICES	LTC6909CMS#PBF	

#### Mechanical Parts

ITEM#	Qty	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN	DNI
2	12	WASHER, #10 FLAT STEEL			KEYSTONE	4703	
3	12	CONNECTOR RING LUG TERMINAL, 10 CRIMP, NON-INSULATED			KEYSTONE	8205	
4	24	NUT, HEX STEEL, 10-32 THREAD, 9.27MM OUT DIA			KEYSTONE	4705	
5	4	SHUNT, 2POS, 2MM PITCH, BLACK			SAMTEC INC.	2SN-BK-G	
6	8	STANDOFF, BRD SPT SNAP FIT 12.7MM LENGTH			KEYSTONE	8833	

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

ITEM#	Qty	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN	DNI
6	15	DO NOT INSTALL (C0402)	C0402	C13, C17, C22, C46, C50, C55, C79, C83, C88, C112, C116, C121, C145, C149, C154	C0402	C0402	DNI
14	1	CAP ALUM 10UF 20% 100V 6.6X6.6X8MM 0.05A 2000H	10UF	C166	KEMET	EDK106M100A9HAA	DNI
20	10	CAP CER 10UF 100V 10% X7R 1210	10UF	C196, C197, C198, C199, C200, C201, C202, C203, C204, C205	TDK	C3225X7R2A106K250AC	DNI
21	20	CAP ALUM POLY HYBRID 33uF 80V 20% 10X10.2mm AEC-Q200	33uF	C206, C207, C208, C209, C210, C211, C212, C213, C214, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C225	PANASONIC	EEHZA1K330P	DNI
28	20	TRAN N-CH MOSFET 100V 25A PG-TSON-8-3	ISC022N10NM6ATMA1	M5, M6, M7, M8, M13, M14, M15, M16, M21, M22, M23, M24, M29, M30, M31, M32, M37, M38, M39, M40	INFINEON TECHNOLOGIES	ISC022N10NM6ATMA1	DNI
30	10	RES SMD 0 OHM JUMPER 2W 1225 AEC-Q200 WIDE-TERM	0	R33, R63, R101, R134, R167, R190, R191, R192, R193, R194	VISHAY	RCA12250000Z0EGLS	DNI
37	5	RES SMD 0.003 OHM 1% 3W 2512 AEC-Q200	0.003	R15, R45, R81, R114, R147	SUSUMU CO, LTD	KRL6432E-M-R003-F-T1	DNI

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40	25	DO NOT INSTALL (R0402)	R0402	R19, R20, R21, R25, R26, R49, R50, R51, R55, R56, R85, R86, R87, R91, R92, R118, R119, R120, R124, R125, R151, R152, R153, R157, R158	R0402	R0402	DNI
41	5	DO NOT INSTALL (R0603)	R0603	R23, R53, R89, R122, R155	R0603	R0603	DNI
44	8	RES SMD 0 Ohm JUMPER 1/10W 0402 AEC-Q200	0	R2, R3, R172, R173, R177, R178, R182, R183	PANASONIC	ERJ-2GE0R00X	DNI