

TITLE: Bill of Materials EVAL-LTC7878_REVA

BOM NO: 05-076374-01-a.csv

ITEM#	Qty	DESCRIPTION	LOCATION	MFG	MFG_PN	DNI
1	1	PCB		Analog Devices Supplied	08_076374a	
2	4	CAP ALUM POLY HYBRID 33uF 80V 20% 10X10.2mm AEC-Q200	C1, C2, C34, C35	PANASONIC	EEHZA1K330P	
3	16	CAP CER 4.7uF 100V 10% X7S 1210 AEC-Q200	C3, C4, C5, C6, C7, C8, C9, C10, C36, C37, C38, C39, C40, C41, C42, C43	MURATA	GCM32DC72A475KE02L	
4	2	CAP CER 0.1UF 10V 10% X7R 0402	C11, C44	AVX CORPORATION	0402ZC104KAT2A	
5	4	CAP CER 1UF 100V 10% X7S 0805	C12, C20, C45, C53	MURATA	GRJ21BC72A105KE11L	
7	2	CAP CER 100PF 10V 20% X7R 0402	C14, C47	KYOCERA	0402ZC101MAT2A	
8	2	CAP CER 0.033UF 16V 10% X5R 0402	C15, C48	AVX CORPORATION	0402YD333KAT2A	
9	4	CAP CER 1uF 16V 10% 0402 LOW ESR	C16, C19, C49, C52	TDK	C1005X6S1C105K050BC	
10	2	CAP CER 6800pF 50V 10% X7R 0603	C18, C51	YAGEO	CC0603KRX7R9BB682	
11	4	CAP CER 4.7uF 10V 10% X5R 0402 LOW ESR	C21, C23, C54, C56	TDK	C1005X5R1A475K050BC	
12	16	CAP CER 10uF 50V 10% X7R 1210	C24, C25, C26, C27, C28, C29, C30, C31, C57, C58, C59, C60, C61, C62, C63, C64	MURATA	GRM32ER71H106KA12L	
14	2	CAP ALUM POLYMER 220UF 35V 20% 2.5A 0.02OHM 10000HRS AEC-Q200	C33, C66	PANASONIC	EEHZA1V221P	
15	4	DIODE SCHOTTKY SINGLE BARRIER	D1, D2, D3, D4	NXP SEMICONDUCTORS	BAT46WJ, 115	
16	4	CONN-PCB THREADED BROACHING STUD 10-32 FASTENER 0.625, USE ALT_SYMBOL FOR C450D200 PAD	J1, J2, J3, J4	CAPTIVE FASTENER	CKFH1032-10	

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17	2	IND POWER CHOKE SHIELDED 15UH 15% 100KHZ 30A 0.00264OHM AEC-Q200	L1, L2	WURTH ELEKTRONIK	7443641500	
18	4	TRAN N-CHANNEL POWER MOSFET 80V 100A	M1, M2, M9, M10	INFINEON TECHNOLOGIES	BSC030N08NS5ATMA1	
19	4	TRAN N-CH MOSFET 30V 433A	M3, M4, M11, M12	INFINEON TECHNOLOGIES	BSC005N03LS5ATMA1	
22	31	RES SMD 0 Ohm JUMPER 1/10W 0402 AEC-Q200	R1, R2, R3, 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	PANASONIC	ERJ-2GE0R00X	
23	2	RES SMD 5.1K Ohm 1% 1/16W 0402 AEC-Q200	R12, R42	VISHAY	CRCW04025K10FKED	
24	2	RES SMD 0.005 1% 3W 2512 AEC-Q200 LONG SIDE TERM	R14, R44	SUSUMU CO, LTD	KRL6432E-M-R005-F-T1	
26	2	RES SMD 49.9 Ohm 1% 1/10W 0603 AEC-Q200	R16, R46	PANASONIC	ERJ-3EKF49R9V	
27	2	RES SMD 56.2K Ohm 1% 1/10W 0402 AEC-Q200	R18, R48	PANASONIC	ERJ-2RKF5622X	
30	2	RES SMD 100K Ohm 1% 1/10W 0402 AEC-Q200	R27, R57	PANASONIC	ERJ-2RKF1003X	
31	2	RES SMD 0 OHM JUMPER 2W 1225 AEC-Q200 WIDE- TERM	R33, R63	VISHAY	RCA12250000Z0EGLS	
32	2	RES SMD 232K Ohm 1% 1/10W 0402 AEC-Q200	R35, R65	PANASONIC	ERJ-2RKF2323X	
33	2	RES SMD 10K Ohm 1% 1/10W 0402 AEC-Q200	R36, R66	PANASONIC	ERJ-2RKF1002X	
34	2	RES SMD 301K Ohm 1% 1/10W 0402 AEC-Q200	R7, R37	PANASONIC	ERJ-2RKF3013X	
35	2	RES SMD 21.5K Ohm 1% 1/10W 0402 AEC-Q200	R8, R38	PANASONIC	ERJ-2RKF2152X	
36	4	RES SMD 1 Ohm 5% 1/10W 0402 AEC-Q200	R6, R67, R69, R70	PANASONIC	ERJ-2GEJ1R0X	
37	2	RES SMD 5.1 Ohm 5% 1/10W 0402 AEC-Q200	R68, R71	PANASONIC	ERJ-2GEJ5R1X	
38	12	CONN-PCB SOLDER TERMINAL TURRETS FOR CLIP LEADS	TP1, TP4, TP5, TP6, TP7, TP8, TP22, TP25, TP30, TP31, TP32, TP33	MILL-MAX	2308-2-00-80-00-00-07-0	

ITEM#	Qty	DESCRIPTION	LOCATION	MFG	MFG_PN	DNI
39	2	IC-ADI 70V PARALLELABLE 4-SWITCH BUCK BOOST CONTROLLER WITH INDUCTOR DCR SENSING	U1, U2	ANALOG DEVICES	LTC7878AUH#TRPBF	

Mechanical Parts

ITEM#	Qty	DESCRIPTION	LOCATION	MFG	MFG_PN	DNI
2	12	NUT, HEX STEEL, 10-32 THREAD, 9.27MM OUT DIA		KEystone	4705	
3	4	STANDOFF, BRD SPT SNAP FIT 12.7MM LENGTH		KEystone	8833	
4	6	CONNECTOR RING LUG TERMINAL, 10 CRIMP, NON INSULATED		KEystone	8205	
5	6	WASHER, #10 FLAT STEEL		KEystone	4703	

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

ITEM#	Qty	DESCRIPTION	LOCATION	MFG	MFG_PN	DNI
6	6	DO NOT INSTALL (TBD_C0402) PLEASE USE SYM_3 AND/OR SYM_4	C13, C17, C22, C46, C50, C55	TBD0402	TBD0402	DNI
13	2	CAP ALUM POLYMER 220UF 35V 20% 2.5A 0.02OHM 10000HRS AEC-Q200	C32, C65	PANASONIC	EEHZA1V221P	DNI
20	4	TRAN N-CHANNEL POWER MOSFET 80V 100A	M5, M6, M13, M14	INFINEON TECHNOLOGIES	BSC030N08NS5ATMA1	DNI
21	4	TRAN N-CH MOSFET 30V 433A	M7, M8, M15, M16	INFINEON TECHNOLOGIES	BSC005N03LS5ATMA1	DNI
25	2	RES SMD 0.005 1% 3W 2512 AEC-Q200 LONG SIDE TERM	R15, R45	SUSUMU CO, LTD	KRL6432E-M-R005-F-T1	DNI
28	10	DO NOT INSTALL (TBD_R0402), PLEASE USE SYM_3 AND/OR SYM_4	R19, R20, R21, R25, R26, R49, R50, R51, R55, R56	TBD0402	TBD0402	DNI
29	2	DO NOT INSTALL (TBD_R0603), PLEASE USE SYM_3 AND/OR SYM_4	R23, R53	TBD0603	TBD0603	DNI