

					Capture CIS Standard Bill Of Materials - Standard Report					
						Report Created on Thursday Oct 10 10:23:11 2024				
SKU# = EVAL-LTC7872-AZ										
IC NO. = LTC7872										
PCA BOM = 700-EVAL-LTC7872-AZ_REV02										
PCA ASS'Y DWG = 705-EVAL-LTC7872-AZ_REV02										
PCA SCHEMATIC = EVAL-LTC7872-AZ_REV02										
Item Number	Quantity	Part Reference	Description	Manufacturer	Manufacturer PN	MFR PN Status	Value	PART_ NUMBER	BOM Notes	
1	3	C1,C4,C10	CAP.,47pF,COG,50V,5%,0603	MURATA VISHAY TDK KEMET	GRM1885C1H470JA01D VJ0603A470JXAAC CGJ3E2C0G1H470J080AA C0603C470J5GACTU	S Y S Y	47pF	150-0054		
2	3	C2,C5,C62	CAP.,4.7uF,X7R,16V,10%,0805	AVX KEMET NIC TAIYO YUDEN MURATA TDK	0805YC475KAT2A C0805C475K4RACTU NMC0805X7R475K16TRPL PF EMK212B7475KG-T GRM21BR71C475KA73L C2012X7R1C475K125AE	Y Y Y Y O Y	4.7uF	150-2085		
3	3	C3,C104,C105	CAP.,1uF,X7R,100V,10%,1206	AVX MURATA	12061C105KAT2A GRM31CR72A105KA01L	Y S	1uF	150-3438		
4	1	C6	CAP.,15uF,TANT,16V,20%,3528	KEMET	T521B156M016ATE090	Y	15uF	150-0768		
5	4	C7,C11,C17,C18	CAP.,0.1uF,X7R,16V,10%,0603	AVX NIC WURTH ELEKTRONIK	0603YC104KAT2A NMC0603X7R104K16TRPF 885012206046	Y Y Y	0.1uF	150-0164		
6	5	C8,C70,C71,C88,C89	CAP.,1uF,X7R,25V,10%,0603,AEC-Q200	MURATA TAIYO YUDEN TDK	GCM188R71E105KA64D TMK107AB7105KAHT CGA3E1X7R1E105K080AC	Y Y Y	1uF	150-0291		
7	1	C9	CAP.,0.01uF,X7R,16V,10%,0603	AVX KEMET MURATA NIC	0603YC103KAT2A C0603C103K4RACTU GRM188R71C103KA01D NMC0603X7R103K16TRPF	Y Y O Y	0.01uF	150-0038		
8	0	C12,C13,C15,C19,C20,C138,C139,C140,C141	CAP., OPTION, 0603				OPT	150-3038	NO STUFF	
9	1	C14	CAP.,10pF,COG,100V,+/-0.1pF,0603	AVX KEMET	06031A100BAT2A C0603C100B1GAC	Y Y	10pF	150-2528		
10	9	C16,C56,C60,C61,C64,C76,C79,C80,C81	CAP.,0.1uF,X7R,25V,10%,0603,AEC-Q200	AVX SAMSUNG	06033C104K4T4A CL10B104KA8WPNC	Y Y	0.1uF	150-0439		
11	8	C25,C26,C27,C28,C29,C30,C31,C32	CAP.,33uF,ALUM ELECT							
			HYB,80V,20%,10x10.2mm,SMD,RADIAL,AEC-Q200	PANASONIC	EEHZC1K330P	Y	33uF	150-1298	NO STUFF C21-C24,C33-C36,C106-C121	
12	8	C37,C38,C39,C40,C41,C42,C43,C44	CAP.,100uF,ALUM POLY							
			HYB,25V,20%,6.3x7.7mm,D8,SMD,RADIAL,AEC-Q200	PANASONIC	EEHZA1E101XP	Y	100uF	150-2391	NO STUFF C126-C133	
13	20	C45,C46,C47,C48,C53,C54,C55,C57,C58,C59,C72,C73,C74,C75,C77,C78,C122,C123,C124,C125	CAP.,2.2uF,X7R,100V,10%,1210	MURATA AVX MURATA NIC TDK	GRM32ER72A225KA35L 12101C225KAT2A GRM32ER72A225KA35K NMC1210X7R225K100TRP LPF C3225X7R2A225K230AB	S Y S Y Y	2.2uF	150-3049		
14	0	C49,C50,C51,C52,C90,C91,C92,C93,C94,C95,C96,C97,C98,C99,C100,C101,C134,C135,C136,C137,C142,C143,C144,C145,C146,C147,C148,C149,C150,C151,C152,C153,C154,C155,C156,C157,C158,C159,C160,C161,C162,C163,C164,C165,C166,C167,C168,C169,C170,C171,C172,C173,C174,C175,C176,C177,C178,C179,C180,C181,C182,C183,C184,C185	CAP., OPTION, 1210					OPT	150-3035	NO STUFF

15	8	C63,C65,C68,C69,C82,C83,C86,C87	CAP.,0.22uF,X7R,25V,10%,0603	MURATA YAGEO TDK	GRM188R71E224KA88D CC0603KRX7R88B224 C1608X7R1E224K080AC	Y Y Y	0.22uF	150-0320	
16	4	C66,C67,C84,C85	CAP.,10uF,X7R,25V,10%,1210	AVX MURATA	12103C106KAT2A GRM32DR71E106KA12L	Y S	10uF	150-0282	
17	2	C102,C103	CAP.,5100uF,ALUM ELEC., 20% 35V RADIAL	Chemi-Con	EKYC350ELL512MM30S		5100uF	Local_150-0991	
18	2	D1,D2	DIODE,SCHOTTKY,100V,1A,SOD-123W,AEC-Q101	NEXPERIA NEXPERIA	PMEG10010ELR PMEG10010ELRX	Y Y	PMEG10010ELR	210-0325	
19	0	D3,D8	DIODE,OPTION, SOD-323F				OPT	210-0458	NO STUFF
20	4	D4,D5,D6,D7	DIODE,SCHOTTKY,100V,1A,POWERDI-123	DIODES INC.	DFLS1100-7	Y	DFLS1100	210-0044	
21	0	D9	DIODE, OPTION, SOD-123				OPT	210-0115	NO STUFF
22	23	E1,E2,E3,E4,E5,E6,E7,E8,E9,E10,E11, E12,E13,E14,E15,E16,E17,E18,E19, E20,E21,E22,E23	TEST POINT,TURRET,0.094" MTG. HOLE,PCB 0.062" THK	MILL-MAX	2501-2-00-80-00-00-07-0	Y	TEST POINT	260-0003	
23	1	J1	CONN.,HDR,SHROUDED,PLUG,MALE,2x7,2mm,VERT,ST,THT,KEY ED	MOLEX	87831-1420	Y	HDR,SHROUDED	250-0403	
24	10	J2,J3,J4,J5,J6,J7,J8,J9,J10,J11	STUD, FASTENER, #10-32	PENNEENGINEERING	KFH-032-10ET	Y	STUD, FASTENER, #10-32	769-0005	
25	10	J2,J3,J4,J5,J6,J7,J8,J9,J10,J11	RING,LUG,#10,CRIMP,16/14 AWG,NON- INSULATED,SOLDERLESS TERMINALS	KEYSTONE	8205	Y	RING,LUG,#10,CRIMP	Local-769-0010	
26	20	J2,J3,J4,J5,J6,J7,J8,J9,J10,J11(2 each)	NUT,HEX,#10-32,BRASS NARROW	McMaster-Carr	95130A160		NUT,HEX	LOCAL-95130A160	
27	10	J2,J3,J4,J5,J6,J7,J8,J9,J10,J11	WASHER, #10 EXT TOOTH LOCK	McMaster-Carr	98438A230		WASHER, LOCK	LOCAL-98438A230	
28	2	JP1,JP5	CONN.,HDR,MALE,1x4,2mm,VERT,ST,THT	SULLINS CONNECTOR SOLUTIONS	NRPNO41PAEN-RC	Y	HDR	250-0431	
29	3	JP2,JP3,JP4	CONN.,HDR,MALE,1x3,2mm,VERT,ST,THT,NO SUBS. ALLOWED	SAMTEC	TMM-103-02-L-S	Y	HDR	250-0638	
30	4	L1,L2,L3,L4	IND.,6.8uH,HIGH CURRENT,15%,30A,2.4mOHM,2818 SMD	WURTH ELEKTRONIK	7443640680	Y	6.8uH	200-0492	
31	9	MP1,MP2,MP3,MP4,MP5,MP6,MP 7,MP8,MP9	STANDOFF,NYLON,SNAP-ON,0.25" (6.4mm)	KEYSTONE WURTH ELEKTRONIK	8831 702931000	Y Y	STANDOFF	763-0006	
32	1	PCB1	PCB, EVAL-LTC7872-AZ				PCB, EVAL-LTC7872-AZ	LOCAL-8225	REV02
33	16	Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q1 0,Q11,Q12,Q13,Q14,Q15,Q16	MOSFET N-Ch 100V 90A TDSON-8	Infineon Technologies	BSC070N10NS3GATMA1		BSC070N10NS3GATMA1	LOCAL_4692	
34	0	Q17,Q18,Q19,Q20,Q21,Q22,Q23,Q 24,Q25,Q26,Q27,Q28,Q29,Q30,Q3 1,Q32	80V 165A 2.9MOHM TOLL	Infineon Technologies	IAUT165N08S5N029ATMA 2		OPT	LOCAL-5455	NO STUFF
35	1	R1	RES.,210k OHMS,1%,1/8W,0805,AEC-Q20C	VISHAY	CRCW0805210KFKEA	Y	210k	100-1643	
36	1	R2	RES.,3.01M OHMS,1%,1/8W,0805,AEC-Q20C	VISHAY	CRCW08053M01FKEA	Y	3.01M	100-1588	
37	1	R3	RES.,2.2 OHMS,1%,1/4W,1206,AEC-Q200	VISHAY	CRCW12062R20FKEA	Y	2.2	100-0778	
38	1	R4	RES.,10k OHMS,1%,1/10W,0603	VISHAY NIC YAGEO	CRCW060310K0FKEC NRC06F1002TRF RC0603FR-0710KL	Y Y Y	10k	100-2532	
39	1	R5	RES.,48.7k OHMS,1%,1/10W,0603,AEC-Q200	VISHAY PANASONIC	CRCW060348K7FKEA ERJ3EF4872V	Y Y	48.7k	100-0260	
40	6	R6,R33,R49,R55,R75,R76	RES.,100k OHMS,1%,1/10W,0603,AEC-Q200	VISHAY NIC PANASONIC YAGEO	CRCW0603100KFKEA NRC06F1003TRF ERJ3EF1003V RC0603FR-07100KL	Y Y Y Y	100k	100-0343	
41	4	R7,R31,R32,R34	RES.,4.99k OHMS,1%,1/10W,0603	PANASONIC YAGEO	ERJ3EF4991V RC0603FR-074K99L	Y Y	4.99k	100-0121	
42	28	R8,R11,R15,R22,R41,R43,R47,R50,F 53,R54,R56,R58,R59,R60,R62,R63,R 65,R69,R71,R73,R78,R80,R81,R82,R 86,R87,R88,R89	RES.,0 OHM,1/10W,0603	BOURNS VISHAY YAGEO	CR0603-J/-000ELF CRCW06030000Z0EAC RC0603FR-070RL	Y Y Y	0	100-2621	
43	2	R9,R23	RES.,1k OHM,1%,1/10W,0603,AEC-Q200	VISHAY NIC PANASONIC	CRCW06031K00FKEA NRC06F1001TRF ERJ3EF1001V	Y Y Y	1k	100-2422	
44	0	R10,R24,R29,R37,R38,R83,R94,R95, R96,R97,R98,R99,R100,R101	RES., OPTION, 0603				OPT	100-2374	NO STUFF
45	1	R12	RES.,107k OHMS,1%,1/8W,0805	VISHAY	CRCW0805107KFKEA	Y	107k	100-3001	
46	1	R13	RES.,37.4k OHMS,1%,1/10W,0603,AEC-Q200	PANASONIC PANASONIC VISHAY	ERJ-3EF3742 ERJ3EF3742V CRCW060337K4FKEA	Y Y Y	37.4k	100-0862	

47	4	R14,R18,R20,R30	RES.,10K OHMS,1%,1/10W,0603,AEC-Q200	PANASONIC VISHAY VISHAY KOA SPEER	ERJ3EKF1002V CRCW060310K0FKEA CRCW060310K0FKEB RK73H1J1TTD1002F	Y Y Y Y	10K	100-0602	
48	1	R16	RES.,110k OHMS,0.1%,1/8W,0805,METAL FILM, AEC-Q200	PANASONIC	ERA6AEB114V	Y	110k	100-1307	
49	1	R17	RES.,499k OHMS,1%,1/8W,0805,AEC-Q200	NIC PANASONIC VISHAY	NRC10F4993TRF ERJ6ENF4993V CRCW0805499KFKEA	Y Y Y	499k	100-0777	
50	1	R19	RES.,12.7k OHMS,1%,1/10W,0603,AEC-Q200	PANASONIC VISHAY	ERJ3EKF1272V CRCW060312K7FKEA	Y Y	12.7k	100-0377	
51	3	R21,R25,R26	RES.,100 OHMS,1%,1/10W,0603,AEC-Q200	PANASONIC VISHAY NIC	ERJ3EKF1000V CRCW0603100RFKEA NRC06F1000TRF	Y Y Y	100	100-2586	
52	2	R27,R28	RES.,45.3k OHMS,1%,1/10W,0603,AEC-Q200	PANASONIC VISHAY	ERJ3EKF4532V CRCW060345K3FKEA	Y Y	45.3k	100-2684	
53	0	R35,R36,R85,R90,R91,R92,R93	RES., OPTION, 0805				OPT	100-2558	NO STUFF
54	4	R39,R44,R61,R64	RES.,1.69k OHMS,1%,1/10W,0603,AEC-Q200	NIC PANASONIC VISHAY	NRC06F1691TRF ERJ3EKF1691V CRCW06031K69FKEA	Y Y Y	1.69k	100-2797	
55	4	R40,R48,R70,R72	RES.,1.5k OHMS,1%,1/10W,0603	NIC VISHAY	NRC06F1501TRF CRCW06031K50FKEA	Y Y	1.5k	100-0310	
56	4	R42,R45,R66,R67	RES.,3.3 OHMS,1%,1/10W,0603,AEC-Q200	VISHAY	CRCW06033R30FKEA	Y	3.3	100-0639	
57	4	R46,R51,R68,R74	RES.,16.9k OHMS,1%,1/8W,0805,AEC-Q200	STACKPOLE ELECTRONICS, INC. VISHAY	RMCF0805FT16K9 CRCW080516K9FKEA	Y Y	16.9k	100-1656	
58	4	R52,R57,R77,R79	RES.,10 OHMS,1%,1/10W,0603	VISHAY NIC PANASONIC Rohm YAGEO	CRCW060310R0FKEA NRC06F10R0TRF ERJ3EKF10R0V MCR03EZPFX10R0 RC0603FR-0710RL	Y Y Y Y Y	10	100-2306	
59	1	R84	RES.,0 OHM,1/8W,0805,AEC-Q200	PANASONIC NIC	ERJ6GE0R00V NRC10Z0TRF	Y Y	0	100-1178	
60	4	RSNS1,RSNS2,RSNS3,RSNS4	RES.,0.001 OHMS,1%,3W,2512,AEC-Q200 LONG-SIDE TERM	VISHAY	CRCW08050000Z0EA	Y	0.001	100-1892	
61	1	SW1	SWITCH,SLIDE,DPDT,0.3A,6VDC,PTH	SUSUMU	KRL6432E-M-R001-J-T1	Y	DPDT	430-0039	
62	0	T1,T2	IND.,4.6uH,PWR	C&K	JS202011CQN	Y	4.6uH	200-0889	NO STUFF T1,T2
63	4	U1,U2,U3,U4	IC,DC/DC CONVERTER,MSE-12	ANALOG DEVICES	LTC7060EMSE#PBF	Y	LTC7060EMSE	LTC7060EMSE#PBF	
64	1	U5	IC,HIGH POWER POLY-PHASE,BI-DIRECTIONAL SUPPLY/CHARGER	ANALOG DEVICES	LTC7872ELXE#PBF	Y	LTC7872ELXE	LTC7872ELXE#PBF	
65	1	U6	IC, MEMORY,EEPROM,2Kb (256x8),TSSOP-8,400kHz	Microchip	24LC025-I/ST	Y	24LC025-I/ST	380-0087	
66	4	XJP1,XJP2,XJP3,XJP5	CONN.,SHUNT,FEMALE,2-POS,2mm	MICROCHIP	24LC025T-I/ST	Y	SHUNT	250-0419	
				SAMTEC	2SN-BK-G	Y			