

SKU# = EVAL-LTC7891-AZ							
IC NO. = LTC7891UFDM							
PCA BOM = 700-EVAL-LTC7891-AZ_REV01							
PCA ASS'Y DWG = 705-EVAL-LTC7891-AZ_REV01							
PCA SCHEMATIC = 710-EVAL-LTC7891-AZ_REV01							
Item Number	Quantity	Part Reference	Description	Manufacturer	Manufacturer PN	Value	BOM Notes
1	1	C1	CAP.,4.7uF,X5R,25V,10%,0603,NO SUBS. ALLOWED	MURATA	GRM188R61E475KE11D	4.7uF	
2	3	C2,C3,C17	CAP.,0.1uF,X7R,25V,10%,0603	AVX YAGEO MURATA	06033C104KAT2A CC0603KRX7R8BB104 GRM188R71E104KA01D	0.1uF	
3	1	C7	CAP.,1000pF,X7R,25V,10%,0603	AVX AVX KEMET NIC MURATA	06033C102KAT2A 06033C102KAT4A C0603C102K3RACTU NMC0603X7R102K25TRPF GRM188R71E102KA01D	1000pF	1nF
4	2	C10,C24	CAP.,100pF,C0G,25V,10%,0603	AVX KEMET	06033A101KAT2A C0603C101K3GACTU	100pF	
5	1	C14	CAP.,4700pF,C0G/NP0,50V,5%,0603	AVX KEMET MURATA	06035A472JAT2A C0603C472J5GACTU GRM1885C1H472JA01D	4700pF	4.7nF
6	1	C15	CAP.,1uF,X5R,50V,10%,0603,AEC-Q200, NO SUBS. ALLOWED	MURATA	GRT188R61H105KE13D	1uF	
7	0	C16	CAP., OPTION, 0603			OPT	NO STUFF
8	1	C23	CAP.,1uF,X7R,25V,10%,0603,AEC-Q200	MURATA TAIYO YUDEN TDK	GCM188R71E105KA64D TMK107AB7105KAHT CGA3E1X7R1E105K080AC	1uF	
9	1	C25	CAP.,0.1uF,X7R,100V,10%,0603	AVX MURATA SAMSUNG	06031C104KAT2A GRM188R72A104KA35D CL10B104KC8NNNC	0.1uF	
10	2	CIN1,CIN2	CAP.,47uF,ALUM. POLY. HYB.,80V,20%,10x10.2mm SMD,RADIAL,AEC	PANASONIC	EEH2C1K470P	47uF	
11	2	CIN3,CIN4	CAP.,22uF,X7S,100V,20%,2220,STACKED	TDK	CKG57NX7S2A226M500JH	22uF	
12	8	CIN5,CIN6,CIN7,CIN12,CIN13	CAP.,0.22uF,X7S,100V,10%,0603,AEC-Q200	Taiyo Yuden	HMK107C7224KAHTE	0.22uF	
13	4	CIN8,CIN9,CIN10,CIN11	CAP.,10uF,X7S,100V,10%,1210	MURATA	GRM32EC72A106KE05L	10uF	NO STUFF CIN13-CIN16
14	8	CIN17,CIN18,CIN19,CIN20	CAP.,1uF,X7S,100V,10%,0805,SOFT TERM.	MURATA TDK	GRJ21BC72A105KE11L C2012X7S2A105K125AE	1uF	
15	2	COUT5,COUT7	CAP.,150uF,TANT,POSCAP,16V,20%,7343,50mOHMS,TQC	PANASONIC	16TQC150MYF	150uF	
16	0	COUT6,COUT18	CAP., OPTION, 7343			OPT	NO STUFF
17	4	COUT8,COUT9,COUT10,COUT11	CAP.,22uF,X7R,16V,10%,1210	MURATA AVX	GRM32ER71C226KEA8L 1210YC226KAT2A	22uF	
18	0	D4	DIODE,SCHOTTKY,100V,12A,SO-8FL,AEC-101	ON SEMICONDUCTOR	NTS12100EMFST1G	NTS12100	NO STUFF
19	0	D5	DIODE, SCHOTTKY BARRIER 100V 200mA SOD-323	ON SEMICONDUCTOR	NSR02100HT1G	NSR02100HT1G	NO STUFF
20	11	E2,E3,E4,E6,E8,E10,E11,E12	TEST POINT,TURRET,0.094" MTG. HOLE,PCB 0.062" THK	MILL-MAX	2501-2-00-80-00-00-07-0	TEST POINT	
21	4	J1,J2,J5,J6	EVAL BOARD STUD HARDWARE SET, #10-32-INACTIVE PART	ANALOG DEVICES	720-0010	STUD,#10-32	
22	0	J3	CONN.,RF/COAX,MMCX,JACK,FEMALE,VERT,ST,SMT	MOLEX MOLEX MOLEX	73415-2063 0734152063 734152063	RF/COAX,MMCX	NO STUFF
23	2	JP1,JP2	CONN.,HDR,MALE,2x3,2mm,VERT,ST,THT	WURTH ELEKTRONIK	62000621121	HDR	
24	1	L1	IND.,3.1uH, WE-HCF,PWR,15%,26A,2.09mOHMS,2013	WURTH ELEKTRONIK	7443630310	3.1uH, WE-HCF	
25	0	L2	IND.,3.3uH,ERU CHOKE,10%,34A,1.5 mOHMS,SMD, 22mm x 22.3mm	TDK	B82559A5332A020	3.3uH	NO STUFF
26	1	LB1	LABEL SPEC, DEMO BOARD SERIAL NUMBER	BRADY	THT-96-717-10	LABEL	
27	4	MP1,MP2,MP3,MP4	STANDOFF,NYLON,SNAP-ON,0.625 (5/8"),15.9mm	KEYSTONE	8834	STANDOFF	
28	0	MP5	HEATSINK 1/8 BRICK 55X20.7X11.4M	Wakefield-Vette	567-45AB	HEATSINK	NO STUFF
29	4	P1,P2,P3,P4	CONN-PCB 1POS STEEL SPACER WITH M2X0.4 THD	WURTH ELEKTRONIK	9774010243R	STEEL,ROUND	

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PCA SCHEMATIC = 710-EVAL-LTC7891-AZ_REV01							
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30	1	PCB1	PCB, EVAL-LTC7891-AZ	ADI APPROVED SUPPLIER	600-EVAL-LTC7891-AZ	PCB, EVAL-LTC7891-AZ	REV01
31	2	Q1,Q2	XSTR.,PWR,GaN FET,100V,60A/231A,DIE SIZE: 3.5x1.95mm	EFFICIENT POWER CONVER	EPC2218	EPC2218	
32	0	R1	RES., OPTION, 0402			OPT	NO STUFF
33	9	R2,R4,R24,R25,R29,R59,R7	RES.,0 OHM,1/10W,0603,AEC-Q200	VISHAY VISHAY NIC VISHAY STACKPOLE ELECTRONICS, INC.	CRCW06030000Z0EA CRCW06030000Z0EB NRC06ZOTRF CRCW06030000Z0EC RMC0603ZTOR00		0
34	1	R5	RES.,1M OHM,1%,1/10W,0603	VISHAY VISHAY NIC PANASONIC YAGEO	CRCW06031M00FKEA CRCW06031M00FKEC NRC06F1004TRF ERJ3EKF1004V RC0603FR-0723K2L	1M	
35	1	R6	RES.,2.2 OHMS,5%,1/10W,0603,AEC-Q200	PANASONIC	ERJ3GEYJ2R2V		2.2
36	3	R8,R13,R15	RES.,1 OHM,1%,1/10W,0603,AEC-Q200	NIC VISHAY	NRC06F1R00TRF CRCW06031R00FKEA		1
37	1	R17	RES.,10 OHMS,1%,1/10W,0603	VISHAY NIC PANASONIC Rohm YAGEO	CRCW060310R0FKEA NRC06F10R0TRF ERJ3EKF10R0V MCR03EZPF10R0 RC0603FR-0710RL		10
38	1	R18	RES.,604k OHMS,1%,1/10W,0603,AEC-Q200	VISHAY	CRCW0603604KFKEA	604k	
39	1	R19	RES.,43.2k OHMS,1%,1/10W,0603,AEC-Q200	PANASONIC ROHM VISHAY	ERJ3EKF4322V MCR03EZPF4322 CRCW060343K2FKEA	43.2k	
40	1	R20	RES.,10k OHMS,1%,1/10W,0603,AEC-Q200	VISHAY KOA SPEER PANASONIC	CRCW060310K0FKEA RK73H1JTTD1002F ERJ3EKF1002V	10k	
41	0	R30,R31,R34,R38,R53,R61	RES., OPTION, 0603			OPT	NO STUFF
42	1	R37	RES.,73.2k OHMS,1%,1/10W,0603	NIC VISHAY YAGEO	NRC06F7322TRF CRCW060373K2FKEA RC0603FR-0773K2L	73.2k	
43	1	R49	RES.,1k OHM,1%,1/10W,0603	VISHAY YAGEO	CRCW06031K00FKEA RC0603FR-071KL	1k	
44	1	R57	RES.,100k OHMS,1%,1/10W,0603,AEC-Q200	VISHAY NIC PANASONIC YAGEO	CRCW0603100KFKEA NRC06F1003TRF ERJ3EKF1003V RC0603FR-07100KL	100k	
45	1	R62	RES.,412k OHMS,1%,1/10W,0603,AEC-Q200	NIC PANASONIC VISHAY	NRC06F4123TRF ERJ3EKF4123V CRCW0603412KFKEA	412k	
46	1	R63	RES.,34.8k OHMS,1%,1/10W,0603	VISHAY YAGEO	CRCW060334K8FKEA RC0603FR-0734K8L	34.8k	
47	0	R69	RES., OPTION, 2512			OPT	NO STUFF
48	1	RS1	RES.,0.0015 OHM,1%,3W,2512,METAL,SENSE,AEC-Q200	VISHAY	WSP25121L500FEA	0.0015	
49	1	STNCL1	TOOL, STENCIL, 700-EVAL-LTC7891-AZ	ADI	830-EVAL-LTC7891-AZ	TOOL, STENCIL, 700-EVAL-L	REV01
50	1	SW1	SWITCH,SLIDE,DPDT,0.3A,6VDC,PTH	C&K	JS202011CQN	DPDT	

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51	1	U1	IC,Step-Down Controller for GaN FETs,side wettable plastic QFN-28	ANALOG DEVICES	LTC7891RUFDM#PBF	LTC7891RUFDM	
52	2	XJP1,XJP2	CONN.,SHUNT,FEMALE,2-POS,2mm	Würth Elektronik	60800213421	SHUNT	