

TITLE: Bill of Materials								
DATE: 10/07/2025								
DESIGN: 20_100128b_01								
ITEM	QTY	REF_DES	PART_ID	MFG_PART_NUMBER	MANUFACTURER	DESCRIPTION	CASE	VALUE
1	1	N/A	08_100128b	N/A	PCB MANUFACTURING	PCB	N/A	N/A
2	4	C1,C2,C5,C14	E111172	GRM033C71A104KE14D	MURATA	CAP CER 0.1uF 10V 10% X7S 0201		201 0.1UF
3	6	C12,C13,C24,C28,C30,C33	E110432	CL21B106KPNQNNNE	SAMSUNG	CAP CER 10uF 10V 10% X7R 0805		805 10UF
4	2	C15,C16	E131464	GRM188R60G106ME47D	MURATA	CAP; SMD; 0603; 10UF; 20%; 4V; X5R; CERAMIC		603 10UF
5	4	C17,C29,C36,C37	E124560	GRM21BC80G107ME15K	MURATA	CAP CER 100UF 4V 20% X6S 0805		805 100UF
6	3	C18,C41,C44	E110371	GCM188R71E105KA64D	MURATA	CAP CER 1uF 25V 10% X7R 0603 AEC-Q200		603 1UF
7	1	C19	E115448	GRT155R61E105KE01D	MURATA	CAP CER 1UF 25V 10% X5R 0402 AEC-Q200		402 1UF
8	4	C20,C21,C38,C39	E131467	GRM188C81E475KE11D	MURATA	CAP; SMD; 0603; 4.7UF; 10%; 25V; X6S; CERAMIC		603 4.7UF
9	2	C22,C25	E111184	C1005X7S1A105K050BC	TDK	CAP CER 1uF 10V 10% X7S 0402		402 1UF
10	1	C23	E110258	C0603C105K8RACTU	KEMET	CAP CER 1uF 10V 10% X7R 0603		603 1UF
11	1	C3	E110507	C1608X7S1A475K080AC	TDK	CAP CER 4.7uF 10V 10% X7S 0603 LOW ESR		603 4.7UF
12	1	C31	E111499	C0603C104K8RACTU	KEMET	CAP CER 0.1uF 10V 10% X7R 0603		603 0.1UF
13	3	C32,C34,C35	E110144	GRM155R70J105KA12D	MURATA	CAP CER 1uF 6.3V 10% X7R 0402		402 1UF
14	1	C4	E131485	EEETC1A331UP	PANASONIC	CAP; SMD; 330UF; 20%; 10V; ALUMINUM ELECTROLYTIC	N/A	330UF
15	1	C40	E111919	CL10B103KABNNNC	SAMSUNG	CAP CER 0.01uF 25V 10% X7R 0603		603 0.01UF
16	1	C42	E131482	CO0603KRX7R8BB152	YAGEO	CAP; SMD; 0603; 1500PF; 10%; 25V; X7R; CERAMIC		603 1500PF
17	1	C45	E115480	GRT21BC81A226ME13L	MURATA	CAP CER 22uF 25V 20% X6S 0805 AEC-Q200		805 22UF
18	1	C6	E131468	ZRB18AC81A106KE01L	MURATA	CAP; SMD; 0603; 10UF; 10%; 10V; X6S; CERAMIC		603 10UF
19	1	C7	E110743	C1005X7S1A225K	TDK	CAP CER 2.2uF 10V 10% X7S 0402 LOW ESR		402 2.2UF
20	1	C8	E103300	C1608XSR1A106K080AC	TDK	CAP; SMT (0603); 10UF; 10%; 10V; X5R; CERAMIC	SMT (0603)	10UF
21	1	D1	E110517	LG L29K-G2J1-24-Z	OSRAM OPTO SEMICONDUCTORS	DIODE HYPER BRIGHT LOW CURRENT LED (GREEN); NOTE: STATUS SET TO OBSOLETE PER IHS (ACCURIS) BOM INTELLIGENCE REPORT	Case 0603(1608Metric)	LG L29K-G2J1-24-Z
22	1	D2	E112682	LS L29K-H1J2-1-Z	OSRAM OPTO SEMICONDUCTORS	LED SMARTLED 630NM RED; NOTE: STATUS SET TO OBSOLETE PER IHS (ACCURIS) BOM INTELLIGENCE REPORT	Case 0603(1608Metric)	LS L29K-H1J2-1-Z
23	13	E1,E2,E3,E4,E5,E6,E7,E8,E9,E10,E11,E12,E15	E110154	2501-2-00-80-00-00-07-0	MILL-MAX	CONN-PCB SOLDER TERMINAL TEST POINT TURRET 0.094 MTG. HOLE PCB 0.062 INCH THK	N/A	2501-2-00-80-00-00-07-0
24	1	FB1	E116158	74279226101	WURTH ELEKTRONIK	IND EMI SUPPRESSION FERRITE BEAD; 0.006OHM MAX DCR; 8A		1812 100OHM AT 100MEGHZ
25	2	J1,J2	E110397	575-4	KEYSTONE ELECTRONICS	CONN-PCB BANANA JACK	N/A	575-4
26	2	J3,J4	M131110	KFH-032-10ET	PENN ENGINEERING	CUSTOM; CON; ASSY; TH; BROACHING STUDS; LENGTH 0.625 IN; HEAD DIAMETER 0.250 IN; SHANK 0.065 IN; 10-32 THREAD; PHOSPHOR BRONZE	N/A	KFH-032-10ET
27	1	J5	E131293	98414-G06-12ULF	AMPHENOL	CON; MALE; STRAIGHT; TH; 12P; SHROUDED HEADER; 650V; 2A	N/A	98414-G06-12ULF
28	2	J6,J7	E131337	RSP-122811-01	SAMTEC	CON; SMT; COAX RCPT MALE 0HZ TO 6GHZ; 50OHM; 3PINS	N/A	RSP-122811-01
29	1	JP1	E131402	62000311121	WURTH ELECTRONICS	CONNECTOR; MALE; THROUGH HOLE; WR-PHD THT STRAIGHT SINGLE PIN HEADER; STRAIGHT; 3PINS	N/A	62000311121
30	1	L1	E131609	XGL6030-650MEC	COILCRAFT INC.	IND; SMD; 0.065UH; 20%; 43A; COMPOSITE	N/A	0.065UH
31	4	MECH1,MECH2,MECH3,MECH4	M131530	8833	KEYSTONE	STANDOFF; BRD SUPPORT SNAP LOCK/SCREW MOUNT NYLON 12.7MM LONG; 6.6 OD; 3.2 ID	N/A	8833
32	1	P1	E131526	HSEC8-130-01-S-DV-A	SAMTEC INC.	CONNECTOR; SMT; FEMALE; HIGH SPEED EDGE CONNECTOR; 2 ROWS;60PINS	N/A	HSEC8-130-01-S-DV-A
33	1	P2	E124940	067831-1620	MOLEX	CONN-PCB MILLI-GRID HDR VERT 16POS 2MM PITCH; 2.5MM SOLDER TAIL; 3.9MM POST HEIGHT	N/A	067831-1620
34	1	Q1	E131501	PSMNSR4-25YLDX	NEXPERIA	TRAN; NCH; SMD; 5P; LFPK56; 25V; 70A	LFPK	PSMNSR4-25YLDX
35	1	Q2	E131510	2N7002K-T1-GE3	VISHAY	TRAN N-CH MOSFET 60V 0.3A SOT-23 (TO-236)	SOT-23	2N7002K-T1-GE3
36	1	R10	E110026	ERJ-3EKF49R9V	PANASONIC	RES SMD 49.9 Ohm 1% 1/10W 0603 AEC-Q200		603 49.9
37	2	R17,R21	E110226	CRCW06030000020EA	VISHAY	RES SMD 0 OHM JUMPER 1/10W 0603 AEC-Q200 PRECISION POWER	SMT (0603)	0
38	2	R3,R12	E117789	ERJ-3EKF8660V	PANASONIC	RES SMD 866 Ohm 1% 1/10W 0603 AEC-Q200		603 866
39	2	R6,R13	E110203	ERJ-3EKF4991V	PANASONIC	RES SMD 4.99K Ohm 1% 1/10W 0603 AEC-Q200		603 4.99K
40	1	R14	E110045	ERJ-3EKF1004V	PANASONIC	RES SMD 1MEG Ohm 1% 1/10W 0603 AEC-Q200		603 1MEG
41	1	R16	E112843	ERJ-3EKF3092V	PANASONIC	RES SMD 30.9K Ohm 1% 1/10W 0603 AEC-Q200		603 30.9K
42	1	R19	E113307	CRCW060316K5FKEA	VISHAY	RES SMD 16.5K Ohm 1% 1/10W 0603 AEC-Q200		603 16.5K
43	4	R2,R5,R8,R9	E109966	ERJ-3EKF1002V	PANASONIC	RES SMD 10K Ohm 1% 1/10W 0603 AEC-Q200		603 10K
44	1	R7	E131491	KRL6432E-C-R010-F-T5	SUSUMU CO. LTD	RES; SMD; 1225; CURRENT SENSING; 0.01; 1%; METAL FOIL		1225 0.01
45	1	SW1	E131272	JS202011CQN	C&K COMPONENTS	SWITCH SLIDE DPDT 300MA 6V	N/A	JS202011CQN
46	1	U1	E131554	LT7175RVWTRPBF	ANALOG DEVICES	CUSTOM; IC; 24 A; 4 V; SINGLE-PHASE; SILENT SWITCHER STEP-DOWN REGULATORS WITH DIGITAL POWER SYSTEM MANAGEMEN; NOTE: PRELIMINARY DATASHEET	LQFN	LT7175RVWTRPBF
47	1	U2	E131199	24LC025T-I/ST	MICROCHIP TECHNOLOGY	IC EEPROM 2KBIT 12C; TSSOP8	TSSOP	24LC025T-I/ST
48	2	U3,U4	E131450	LTC4450AVWTRMPBF	ANALOG DEVICES	IC; 18V; 12A; IDEAL DIODE; 16-LQFN	QFN	LTC4450AVWTRMPBF
49	1	U5	E131604	LT1761ES5-2.8#TRPBF	ANALOG DEVICES	IC; REGULATOR; SMD; 100MA; LOW NOISE; LDO MICROPPOWER REGULATORS; 1.8 VOUT; TSOT-23	TSOT-23	LT1761ES5-2.8#TRPBF
50	1	U6	E131521	LTC4413EDD#PBF	ANALOG DEVICES	IC; OR CTRLR; SRC SELECT; 10-DFN-EP	DFN	LTC4413EDD#PBF
TOTAL:								
94								
MECHANICAL COMPONENT LIST								
ITEM	QTY	REF_DES	PART_ID	MFG_PART_NUMBER	MANUFACTURER	DESCRIPTION	CASE	VALUE
1	1	N/A	M131099	60800213421	WURTH ELEKTRONIK	CONNECTOR; WR-PHD 2.00 MM JUMPER WITH TEST POINT	N/A	60800213421
2	2	N/A	M131108	98438A230	MCMMASTER CARR	WASHER; 400 SERIES STAINLESS STEEL EXTERNAL-TOOTH LOCK WASHER; STAINLESS STEEL	N/A	98438A230
3	2	N/A	M131111	8205	KEYSTONE	LUG, SOLDERLESS RING TONGUE TERMINAL; WIRE RANGE 16/14 AWG; COPPER	N/A	8205
4	4	N/A	M131109	92671A195	MCMMASTER CARR	NUT; HEX NUT; DIAMETER 3/8 IN; THICKNESS 1/8 IN; 10-32 THREAD; BRASS	N/A	92671A195
TOTAL:								
9								
DNI COMPONENT LIST: Parts NOT installed on the PCB and NOT purchased								
ITEM	QTY	REF_DES	PART_ID	MFG_PART_NUMBER	MANUFACTURER	DESCRIPTION	CASE	VALUE
1	1	C10	E129789	4TPE470MIL	PANASONIC	CAP TANT 470uF 4V 20% 7343 LOW ESR 0.018 Ohm		7343 470UF
2	1	C11	E121629	06031A100KAT2A	AVX CORPORATION	CAP CER 10PF 100V 10% C0G 0603		603 10PF
3	2	C9,C26	E124560	GRM21BC80G107ME15K	MURATA	CAP CER 100UF 4V 20% X6S 0805		805 100UF
4	2	D3,D4	E131552	SDM100K30L-7	DIODES INCORPORATED	DIO SCHOTTKY RECTIFIER 30V 1A SOD-323	N/A	SDM100K30L-7
5	1	R1	E114993	CRCW060320R0FKEA	VISHAY	RES SMD 20 Ohm 1% 1/10W 0603 AEC-Q200		603 20
6	3	R4,R11,R16	E110226	CRCW06030000020EA	VISHAY	RES SMD 0 OHM JUMPER 1/10W 0603 AEC-Q200 PRECISION POWER	SMT (0603)	0
TOTAL:								
10								
Total: (QTY & EST_PRICE Excluding DNI Components)								
TOTAL:								
103								
TEMPLATE: \\cifs.adshiv.analog.com\cpse\comp_libs\pcb\adi_pcb_libs\site\cds\setup\template.bom								
CALLOUT: C:\tmp\20_100128b\output\20_100128b\BOM\callouts.callouts								

