Variant: TIDA-010276 Generated: 1/22/2025 9:28 AM TID #: TIDA-010276

TIDA-010276 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-010276	Any	Printed Circuit Board	
2	C1, C2	2	1000uF	ECA-2AM102	Panasonic	CAP, AL, 1000 uF, 100 V, +/- 20%, TH	D18xL35.5mm
3	C3, C4, C5, C6,	40	10µF	C3225X7R2A106K250AC	TDK	10 μF ±10% 100V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
	C7, C8, C9, C10,						
	C11, C12, C13, C14, C15, C16,						
	C17, C18, C19,						
	C20, C21, C22,						
	C23, C24, C25,						
	C26, C27, C28,						
	C29, C30, C31,						
	C32, C33, C34,						
	C35, C36, C37,						
	C38, C39, C40,						
	C41, C42						
4	C43, C45, C49	3	4.7uF	C1608X6S1C475K080AC	TDK	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X6S, 0603	0603
5	C44		1uF	GRM185R61C105KE44D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0603	0603
6	C46, C48, C50	3	0.1uF	GRM155R62A104KE14D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X5R, 0402	0402
7	C47, C51, C52,	16	1uF	C2012X7S2A105K125AE	TDK	CAP, CERM, 1 µF, 100 V,+/- 10%, X7S, 0805	0805
	C53, C54, C55, C56, C57, C58,						
	C59, C60, C61,						
	C62, C63, C64,						
	C65						
- 8	C66, C67, C68,	15	0.22uF	HMK107C7224KAHTE	Taiyo Yuden	CAP, CERM, 0.22 µF, 100 V,+/- 10%, X7S, AEC-Q200 Grade 1, 0603	0603
-	C69, C70, C71,				,		
	C72, C73, C74,						
	C75, C76, C77,						
	C78, C79, C80						
9	C81, C82, C83	3	0.22uF	GRM155R71C224KA12D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
10	C84, C85, C86		0.1uF	GRM21BR72A104KAC4L	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
11	C87, C89, C91	3	2.2uF	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	0603
12	C88, C90, C92	3	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
13	C93, C94, C95,	6	10pF	GRM1555C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
	C96, C97, C98						
14	C99, C100, C101, C102	4	1000pF	GRM1555C1H102FA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
15	C103, C108, C111, C116	4	10pF	GRM1885C2A100JA01D	MuRata	CAP, CERM, 10 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
16	C104, C105,	9	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603
	C107, C112,						
	C114, C117,						
	C118, C119,						
	C120						
17	C106, C109,	6	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
	C110, C113,						
	C115, C121						
18	C122, C123,	9	2200pF	8.85012E+11	Wurth Elektronik	CAP, CERM, 2200 pF, 16 V, +/- 10%, X7R, 0603	0603
	C124, C125,						
	C126, C127, C128, C129,						
	C128, C129, C130						
19	D1	1	Green	150060GS75000	Wurth Elektronik	LED, Green, SMD	LED_0603
20	D2, D3, D4, D5	4	70V	1PS79SB70,115	Nexperia	Diode, Schottky, 70 V, 0.07 A, SOD-523	SOD-523
21	D6		Red	LTST-C193KRKT-5A	Lite-On	LED, Red, SMD	1.6x0.8mm
22	J1	1	-	PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN,
							100mil, Tin
23	J2	1		61300311121	Wurth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm,
					L		3x1, TH
24	J3, J4	2		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
25	L1	1	22uH	74437324220	Wurth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 22 uH, 1 A, 0.47 ohm,	4.45x1.8x4.06mm
						SMD	
26	MP1, MP2, MP3,	5		746600430R	Wurth Electronics	Pin Screw Terminal, Power Tap M4 Surface Mount	SMT_SCREW_TERM
27	MP4, MP5 MP6, MP7, MP8,			970130365	Wurth Electronics		INAL_7MM0 SPCAER M3
2/	MP6, MP7, MP8, MP9	4		910130305	wurth Electronics		SPUAEK_M3
28	R1, R2, R16,	14	0	PMR03EZPJ000	Rohm	RES, 0, 0%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
20	R17, R18, R19,		•	WWW.JEZFJUUU		TEC, 0, 070, 0.20 TF, AEC-02200 Glade 0, 0003	0000
	R20. R21. R22.						
	R23, R24, R37,						
	R38, R39						
29	R3, R47	2	100k	CRCW0603100KJNEAC	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
30	R4, R92	2	1.0k	RC0603JR-071KL	Yageo	RES, 1.0 k, 5%, 0.1 W, 0603	0603
31	R5	1	47k	RC0603JR-0747KL	Yageo	RES, 47 k, 5%, 0.1 W, 0603	0603
32	R6	1	24.9k	RC0603FR-0724K9L	Yageo	RES, 24.9 k, 1%, 0.1 W, 0603	0603
33	R7, R8, R9, R13,	6	3.01	CRCW04023R01FKED	Vishay-Dale	RES, 3.01, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
	R14, R15						1
34	R10, R11, R12	3	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
35	R25, R26, R27,	16	0.002	CRF1206-FZ-R002ELF	Boums	RES, 0.002, 1%, 1 W, AEC-Q200 Grade 0, 1206	1206
	R28, R29, R30,			l .	l		

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