

TIDA-060025 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-060025	Any	Printed Circuit Board	
2	C1, C6, C15, C16, C17, C18, C19, C20, C21, C22, C34	11	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0402	0402
3	C2	1	47uF	GRM32ER61A476KE20L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X5R, 1210	1210
4	C3	1	22uF	GRM32ER61A226KE20L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 10%, X5R, 1210	1210
5	C4	1	10uF	GRM21BR61E106KA73L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	0805
6	C5, C8, C9, C10, C24, C25	6	1uF	C1608XR1E105K080AC	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0603	0603
7	C7, C14	2	0.1uF	C1206C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 1206	1206
8	C11	1	100pF	CC0402JRNPO9BN101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
9	C12	1	1000pF	CC1206KRX79BB102	Yageo America	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 1206	1206
10	C13, C35	2	2.2uF	GRM219R61E225KA12D	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X5R, 0805	0805
11	C23	1	10uF	C0603C106M9PACTU	Kemet	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0603	0603
12	C26	1	0.1uF	GRM033Z71C104KE14D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0201	0201
13	C27	1	0.01uF	GRM033R71A103KA01D	MuRata	CAP, CERM, 0.01 uF, 10 V, +/- 10%, X7R, 0201	0201
14	C28, C30	2	0.15pF	02011JR15ZBS1R	AVX Corporation	CAP THIN FILM 0.15PF 100V 0201	0201
15	C29, C32, C38, C39	4	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0603	0603
16	C31, C33, C36, C37	4	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 uF, 100 V, +/- 5%, X7R, 0603	0603
17	D1	1	Green	LTST-C150KGKGT	LiteOn	LED, Green, SMD	1.6x3.2mm
18	J1, J3, J5, J15	4		142-0701-231	Cinch Connectivity	Connector, SMA, TH	SMA
19	J2	1		RAPC722X	Switchcraft	Power Jack, mini, 2.1mm OD, R/A, TH	Jack, 14.5x11x9mm
20	J4, J6, J11	3		142-0701-801	Cinch Connectivity	Connector, End launch SMA, 50 ohm, SMT	End Launch SMA
21	J7, J8	2		TSW-110-07-G-D	Samtec	Header, 100mil, 10x2, Gold, TH	10x2 Header
22	J9, J10, J12, J14	4		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
23	J13	1		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
24	J16, J17, J18	3		TSW-101-07-G-S	Samtec	Header, 100mil, 1pos, Gold, TH	Testpoint
25	J19	1		142-0711-201	Cinch Connectivity	Connector, SMA Jack, Vertical, Gold, SMD	SMA
26	L1	1	60 ohm	FBM J3216HM600-T	Taiyo Yuden	Ferrite Bead, 60 ohm @ 100 MHz, 4 A, 1206	1206
27	Q1	1	60V	CSD1853Q2SB	Texas Instruments	MOSFET, N-CH, 60 V, 172 A, DNK0008A (VSON-CLIP-8)	DNK0008A
28	R1	1	3.01k	CRCW06033K01FKFA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R2	1	1.50k	CRCW06031K50FKFA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
30	R3, R10, R11, R15, R19, R27	6	1.00k	ERJ3EKF1001V	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0603	0603
31	R4, R14, R20, R26, R30, R32, R35, R36, R39, R40, R41, R42, R43, R52, R53, R56, R57, R58, R59	19	0	CRCW0603000020EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
32	R5	1	4.02k	CRCW06034K02FKFA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
33	R6	1	3.74k	CRCW06033K74FKFA	Vishay-Dale	RES, 3.74 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
34	R7	1	806	CRCW0603806RFKFA	Vishay-Dale	RES, 806, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
35	R8	1	4.02k	CRCW04024K02FKED	Vishay-Dale	RES, 4.02 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	R9, R17, R45	3	49.9	CRCW0603499RFKFA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
37	R12	1	17.8k	CRCW120617K8FKFA	Vishay-Dale	RES, 17.8 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
38	R13	1	10.0k	ERJ-8ENF1002V	Panasonic	RES, 10.0 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
39	R28, R54	2	49.9k	CRCW060349K9FKFA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
40	R29	1	2.32k	CRCW06032K32FKFA	Vishay-Dale	RES, 2.32 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
41	R31, R60	2	500 ohm	3299Y-1-501LF	Bourns	Trimmer, 500 ohm, 0.5W, TH	9.53x6.1mm
42	R37, R38	2	10.0k	CRCW060310K0FKFA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
43	R46, R48	2	4.99k	RC0201FR-074K99L	Yageo America	RES, 4.99 k, 1%, 0.05 W, 0201	0201
44	R47	1	0	CRCW0402000020ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
45	R50	1	10.0	RC0201FR-0710RL	Yageo America	RES, 10.0, 1%, 0.05 W, 0201	0201
46	R51, R62	2	50	504L50R0FTNCTF	AT Ceramics	RES, 50, 1%, 0.125 W, AEC-Q200 Grade 1, 0402	0402
47	R55	1	1.00	CRCW06031R00FKFA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
48	SH-J9_2-3	1	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black, Place this shunt across pins 2 and 3 of J9	Shunt
49	SH-J10_2-3	1	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black, Place this shunt across pins 2 and 3 of J10	Shunt
50	SH-J12_2-3	1	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black, Place this shunt across pins 2 and 3 of J12	Shunt
51	SH-J13_1-OPEN	1	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black, Place this shunt on pin 1 of J13, the other pin of the shunt should not be on a pin of J13	Shunt
52	SH-J14_2-3	1	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black, Place this shunt across pins 2 and 3 of J14	Shunt
53	TP1, TP3, TP7	3		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
54	TP2	1		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
55	TP4	1		5013	Keystone	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
56	TP5, TP6	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
57	U1	1		IC-HB	IC Haus	Triple 156Mhz Laser Switch	QFN 4X4(24PIN)
58	U2	1		TPS2400DBVR	Texas Instruments	OVERVOLTAGE PROTECTION CONTROLLER, DBV0005A	DBV0005A
59	U3	1		TPS79901DDCT	Texas Instruments	Single Output High PSRR LDO, 200 mA, Adjustable 1.2 to 6.5 V Output, 2.7 to 6.5 V Input, with Low IQ, 5-pin SOT (DDC), -40 to 85 degC, Green (RoHS & no Sb/Br)	DDC0005A
60	U4, U5	2		SN74LVC1T45DBVR	Texas Instruments	Single-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs, DBV0006A	DBV0006A
61	U6	1		TDC7201ZAXR	Texas Instruments	Time-to-Digital Converter for Time-of-Flight Applications in LIDAR, Magnetostrictive and Flow Meters, ZAX0025A	ZAX0025A
62	U7	1		OPA858IDSG	Texas Instruments	OPA858IDSG, DSG0008A (WSON-8)	DSG0008A
63	U8	1		TLV3501AIDBVR	Texas Instruments	4.5ns Rail-to-Rail, High Speed Comparator in Microsized Packages, DBV0006A (SOT-23-6)	DBV0006A
64	U9	1		TVS1400DRVR	Texas Instruments	14-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
65	Y1	1		ASF1MB-8.000MHZ-LY-T	Abracora Corporation	OSC, 8 MHz, 15pF, SMD	OSC, 3.2x.85x5mm
66	F1	0		1206SFF200F/63-2	Littelfuse	Fuse, 2 A, 63 VDC, SMD	1206
67	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
68	LD1	0		1437504-5	TE Connectivity	CONN SOCKET TRANSIST 4POS TO-5	TO-5 (4 PIN)
69	PD1	0			TE Connectivity	CONN SOCKET TRANSIST 3POS TO-5	
70	R16, R33, R34	0	0	CRCW0603000020EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
71	R18, R21, R22, R23, R24, R25	0		Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	0603
72	R44, R61	0	49.9	CRCW0603499RFKFA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
73	R49	0	110	CRCW0402110RFKED	Vishay-Dale	RES, 110, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
74	R63	0	0	CRCW0402000020ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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