

TIDA-00377 REV Rev B Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-00377	Any	Printed Circuit Board	
2	C1	1	3.3uF	C3225X7S2A335M200AB	TDK	CAP, CERM, 3.3 µF, 100 V, +/- 20%, X7S, 1210	1210
3	C2, C4	2	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	0603
4	C3, C5	2	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	0603
5	C6, C7, C8, C9, C10	5	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
6	C11, C12	2	200pF	GRM1885C1H201JA01D	MuRata	CAP, CERM, 200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
7	D1, D2, D4, D5, D8, D9, D10	7	75V	1N4448WX-TP	Micro Commercial Components	Diode, Switching, 75 V, 0.25 A, SOD-323	SOD-323
8	D6	1	78V	SMAJ78CA	Littelfuse	Diode, TVS, Bi, 78 V, 400 W, SMA	SMA
9	D7	1	18V	SMAZ18-13-F	Diodes Inc.	Diode, Zener, 18 V, 1 W, AEC-Q101, SMA	SMA
10	J1, J2, J3, J4, J10, J11	6		5-146278-2	TE Connectivity	Header, 100mil, 2x1, Tin, TH	Header, 2x1, 100mil, TH
11	J5	1		282834-4	TE Connectivity	Terminal Block, 100mil, 4X1 TH	10.62x10x6.5 mm
12	J6, J7, J8, J9	4		5-146278-3	TE Connectivity	Header, 100mil, 3x1, Tin, TH	Header, 3x1, 100mil, TH
13	Q1	1	100 V	DSC2C01R0L	Panasonic	Transistor, NPN, 100 V, 0.02 A, SOT-23	SOT-23
14	Q2	1	40 V	MMBT3904LT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
15	Q3, Q4	2	100V	CSD19537Q3	Texas Instruments	MOSFET, N-CH, 100 V, 50 A, DQG0008A	DQG0008A
16	R1, R6, R25, R26	4	10.0Meg	CRCW080510M0FKEA	Vishay-Dale	RES, 10.0 M, 1%, 0.125 W, 0805	0805
17	R2	1	205k	CRCW0805205KFKEA	Vishay-Dale	RES, 205 k, 1%, 0.125 W, 0805	0805
18	R4	1	1.43Meg	CRCW08051M43FKEA	Vishay-Dale	RES, 1.43 M, 1%, 0.125 W, 0805	0805
19	R5, R7, R22	3	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
20	R8	1	3.74Meg	CRCW08053M74FKEA	Vishay-Dale	RES, 3.74 M, 1%, 0.125 W, 0805	0805
21	R9	1	2.94Meg	CRCW08052M94FKEA	Vishay-Dale	RES, 2.94 M, 1%, 0.125 W, 0805	0805
22	R10	1	1.30Meg	CRCW08051M30FKEA	Vishay-Dale	RES, 1.30 M, 1%, 0.125 W, 0805	0805
23	R11	1	93.1k	CRCW080593K1FKEA	Vishay-Dale	RES, 93.1 k, 1%, 0.125 W, 0805	0805
24	R12	1	931	CRCW0805931RFKEA	Vishay-Dale	RES, 931, 1%, 0.125 W, 0805	0805
25	R13, R20, R21	3	33Meg	RC0805JR-0733ML	Yageo America	RES, 33 M, 5%, 0.125 W, 0805	0805
26	R14	1	6.49Meg	CRCW08056M49FKEA	Vishay-Dale	RES, 6.49 M, 1%, 0.125 W, 0805	0805
27	R15	1	422k	CRCW0805422KFKEA	Vishay-Dale	RES, 422 k, 1%, 0.125 W, 0805	0805
28	R16	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
29	R18, R19	2	124k	CRCW0402124KFKED	Vishay-Dale	RES, 124 k, 1%, 0.063 W, 0402	0402
30	R23	1	402k	CRCW0805402KFKEA	Vishay-Dale	RES, 402 k, 1%, 0.125 W, 0805	0805
31	R28	1	806k	CRCW0805806KFKEA	Vishay-Dale	RES, 806 k, 1%, 0.125 W, 0805	0805
32	R29	1	2.80Meg	CRCW08052M80FKEA	Vishay-Dale	RES, 2.80 M, 1%, 0.125 W, 0805	0805
33	SH-J1, SH-J2, SH-J3, SH-J4, SH-J6, SH-J7, SH-J8, SH-J9, SH-J10, SH-J11	10	1x2	SPC02SYAN	Sullins Connector Solutions	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt
34	U1	1		LP339D	Texas Instruments	Quad, Low-Power, General Purpose Differential Comparator, D0014A	D0014A
35	U2, U7	2		ATL431AIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A	DBZ0003A
36	U3	1		SN74AUP2G08DCUR	Texas Instruments	LOW-POWER DUAL 2-INPUT POSITIVE-AND GATE, DCU0008A	DCU0008A
37	U4	1		SN74AUP1G74DQER	Texas Instruments	LOW-POWER SINGLE POSITIVE-EDGE-TRIGGERED D-TYPE FLIP-FLOP WITH CLEAR AND PRESET, DQE0008A	DQE0008A
38	U5	1		SN74AUP1G17DCKR	Texas Instruments	LOW-POWER SINGLE SCHMITT-TRIGGER BUFFER, DCK0005A	DCK0005A
39	U6	1		SN74AUP1G14DCKR	Texas Instruments	LOW-POWER SINGLE SCHMITT-TRIGGER INVERTER, DCK0005A	DCK0005A
40	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
41	H1, H2, H3, H4	0		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
42	H5, H6, H7, H8	0		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
43	R3, R17, R24, R27	0		CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805