

TIDA-01430 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB1	1		TIDA-01430	Any	Printed Circuit Board	
C1, C16, C30	3	10pF	C0603C100J5GACTU	Kemet	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C2, C3, C18, C19, C65	5	10uF	293D106X9016B2TE3	Vishay-Sprague	CAP, TA, 10 µF, 16 V, +/- 10%, 2 ohm, SMD	3528-21
C4, C5, C8, C17, C21, C22	6	1uF	C0603C105Z9VACTU	Kemet	CAP, CERM, 1 µF, 6.3 V, +80/-20%, Y5V, 0603	0603
C6, C7, C9, C10, C11, C20, C23, C24, C25, C26, C66, C71, C73, C74, C82, C84, C86	17	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603	0603
C12, C15	2	470pF	08055A471FAT2A	AVX	CAP, CERM, 470 pF, 50 V, +/- 1%, C0G/NP0, 0805	0805
C13	1	1500pF	B37947K9152J60	TDK	CAP, CERM, 1500 pF, 16 V, +/- 5%, C0G/NP0, 0805	0805
C14	1	22pF	C0603C220J5GACTU	Kemet	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C27, C29	2	2700pF	08051C272JAT2A	AVX	CAP, CERM, 2700 pF, 100 V, +/- 5%, X7R, 0805	0805
C28	1	5600pF	08055C562KAT2A	AVX	CAP, CERM, 5600 pF, 50 V, +/- 10%, X7R, 0805	0805
C31, C32, C61, C63	4	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
C67, C78	2	3.3uF	GRM188R61A335KE15D	MuRata	CAP, CERM, 3.3 µF, 10 V, +/- 10%, X5R, 0603	0603
C68, C80	2	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	0402
D1, D2, D4, D5	4	3.813V	PTZTE253.6B	Rohm	Diode, Zener, 3.813 V, 1 W, SMA	SMA
D3, D6, D7	3	70V	DESD1P0RFW-7	Diodes Inc.	Diode, TVS, Uni, 70 V, SOT-323	SOT-323
D14, D15	2	Green	LG M67K-G1J2-24-Z	OSRAM	LED, Green, SMD	2x1.4mm
FID1, FID2, FID3, FID4	4		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
J1	1		ED120/3DS	On-Shore Technology	Terminal Block, 5.08 mm, 3x1, Brass, TH	3x1 5.08 mm Terminal Block
J6	1		61301021121	Würth Elektronik	Header, 2.54 mm, 5x2, Gold, TH	Header, 2.54mm, 5x2, TH
L1, L2	2	120 ohm	74279202	Würth Elektronik	Ferrite Bead, 120 ohm @ 100 MHz, 0.5 A, 0805	0805
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
Q1, Q2	2	30V	CSD17571Q2	Texas Instruments	MOSFET, N-CH, 30 V, 22 A, DQK0006C (WSON-6)	DQK0006C
R1, R6, R10, R11, R17	5	150k	RC0603FR-07150KL	Yageo America	RES, 150 k, 1%, 0.1 W, 0603	0603
R2, R3, R4, R5	4	560k	RC1206FR-07560KL	Yageo America	RES, 560 k, 1%, 0.25 W, 1206	1206
R7, R8	2	68	ERJ-6GEYJ680V	Panasonic	RES, 68, 5%, 0.125 W, 0805	0805
R9, R12, R15	3	7.50k	RC0603FR-077K5L	Yageo America	RES, 7.50 k, 1%, 0.1 W, 0603	0603
R13	1	0.002	CSS2H-2512K-2L00FCT-ND	Bourns	RES, 0.002, 1%, 2 W, 2512	2512
R14, R16	2	360	CRCW0805360RJNEA	Vishay-Dale	RES, 360, 5%, 0.125 W, 0805	0805
R18, R20, R44, R45, R46, R63, R64, R67, R69, R71, R75, R76, R78, R80, R82, R83	16	0	RMCF06032T0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R19, R21, R59, R60	4	300	CRCW0603300RJNEA	Vishay-Dale	RES, 300, 5%, 0.1 W, 0603	0603
R38, R53	2	1.00k	RT0603BRD071KL	Yageo America	RES, 1.00 k, 0.1%, 0.1 W, 0603	0603
R40, R55	2	10.0k	RT0603BRD0710KL	Yageo America	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
R42, R57	2	30.1k	RG1608P-3012-B-T5	Susumu Co Ltd	RES, 30.1 k, 0.1%, 0.1 W, 0603	0603
R47	1	143k	CRCW0603143KFKEA	Vishay-Dale	RES, 143 k, 1%, 0.1 W, 0603	0603
R84, R85	2	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	0603
T1, T2	2		CXS70-14-C	Panduit	Terminal 70A Lug	LUG, 32.3x14.5x11.7
U1, U5	2		ISOW7841DWER	Texas Instruments	ISOW7841DW, DW0016B (SOIC-16)	DW0016B
U2	1		ADS7043IRUGR	Texas Instruments	12-Bit, 1-MSPS, Ultra-Low-Power & Ultra-Small-Size SAR ADC with SPI Interface, RUG0008A (X2QFN-8)	RUG0008A
U3	1		TLV316IDBVR	Texas Instruments	10-MHz, Rail-to-Rail Input/Output, Low-Voltage, 1.8-V CMOS Operational Amplifier, DBV0005A (SOT-5)	DBV0005A
U4	1		TLV2316IDGKR	Texas Instruments	10-MHz, Rail-to-Rail Input/Output, Low-Voltage, 1.8-V CMOS Operational Amplifier, DGK0008A (VSSOP-8)	DGK0008A
U6	1		ADS7044IRUGR	Texas Instruments	12-Bit, 1-MSPS, Ultra-Low-Power & Ultra-Small-Size SAR ADC with SPI Interface, RUG0008A (X2QFN-8)	RUG0008A
U7, U8	2		SN74LVC1G17DCKR	Texas Instruments	SINGLE SCHMITT-TRIGGER BUFFER, DCK0005A (SOT-SC70-5)	DCK0005A
U13, U15	2		TLV431ACDBZR	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U17, U22	2		LP5907MFX-3.0/NOPB	Texas Instruments	250-mA Ultra-Low-Noise, Low-IQ LDO, DBV0005A (SOT-23-5)	DBV0005A
U19, U24	2		REF1930AIDDCR	Texas Instruments	Dual Output Vref and Vref/2 Voltage Reference, DDC0005A (SOT-5)	DDC0005A

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