

## TIDA-00765 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB1	1		TIDA-00765	Any	Printed Circuit Board	
C1, C3, C6, C10, C22, C23, C24	7	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603
C2, C4, C7, C9, C12, C13, C14, C18, C19, C20, C21	11	0.1uF	C0603C104J3RAC	Kemet	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 5%, X7R, 0603	0603
C5, C8	2	0.01uF	C0402C103J5RACTU	Kemet	CAP, CERM, 0.01 $\mu$ F, 50 V, +/- 5%, X7R, 0402	0402
C11, C25	2	0.47uF	C0603C474K4RACTU	Kemet	CAP, CERM, 0.47 $\mu$ F, 16 V, +/- 10%, X7R, 0603	0603
C15	1	2200pF	GRM155R61A222KA01D	MuRata	CAP, CERM, 2200 pF, 10 V, +/- 10%, X5R, 0402	0402
C16	1	4.7uF	GRM155R60J475ME87D	MuRata	CAP, CERM, 4.7 $\mu$ F, 6.3 V, +/- 20%, X5R, 0402	0402
C17	1	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 $\mu$ F, 6.3 V, +/- 10%, X7R, 0402	0402
D1	1	5V	MMSZ4707-V	Vishay-Semiconductor	Diode, Zener, 20 V, 500 mW, SOD-123	SOD-123
D2, D3, D4, D5, D6, D10, D11, D12	8	3.9V	MMSZ5228BS-7-F	Diodes Inc.	Diode, Zener, 3.9 V, 200 mW, SOD-323	SOD-323
D7, D8, D9	3	Green	150060GS75000	Würth Elektronik	LED, Green, SMD	LED_0603
GND1, GND2	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1, J3, J7, J8	4		ED555/4DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 4-Pos, TH	14x8.2x6.5mm
J2, J4	2		PEC05SAAN	Sullins Connector Solutions	Header, 2.54mm, 5x1, Tin, TH	Header, 2.54mm, 5x1, TH
J5, J9, J10, J12	4		PEC04SAAN	Sullins Connector Solutions	Header, 100mil, 4x1, Tin, TH	Header, 4x1, 100mil, TH
J6	1		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
J11	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
L1, L2, L3, L4, L5, L6, L9, L10	8	1800 ohm	BLM15BD182SN1D	MuRata	Ferrite Bead, 1800 ohm @ 100 MHz, 0.1 A, 0402	0402
L11	1	1.5uH	LQM18PN1R5MFH	MuRata	Inductor, Ferrite, 1.5 $\mu$ H, 0.53 A, 0.22 ohm, SMD	0603
Q1, Q2	2	-12V	CSD23381F4	Texas Instruments	MOSFET, P-CH, -12 V, -2.3 A, YJC0003A	YJC0003A
Q3, Q4	2	12V	CSD13381F4	Texas Instruments	MOSFET, N-CH, 12 V, 2.1 A, YJC0003A	YJC0003A
R1, R2, R3, R4, R5, R7, R11, R13, R14, R15, R16	11	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
R6, R9	2	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
R8, R17, R48	3	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R10, R12, R46, R47, R49, R50, R51, R55, R56, R57	10	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
R18, R19	2	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
R20	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R21	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R22, R33	2	75Meg	HMC0805JT75M0	Stackpole Electronics Inc	RES, 75 M, 5%, 0.125 W, 0805	0805
R23	1	2.00	CRCW04022R00FKED	Vishay-Dale	RES, 2.00, 1%, 0.063 W, 0402	0402
R24, R25, R35, R36, R40, R45	6	10k	RNCF0805TKY10K0	Stackpole Electronics Inc	RES, 10 k, 0.01%, 0.125 W, 0805	0805
R26, R27, R41, R42	4	100	Y1629100R000Q9R	Vishay Foil Resistors	RES, 100, 0.02%, 0.1 W, 0805	0805
R28, R31, R38, R39	4	330	RG2012L-331-L-T05	Susumu Co Ltd	RES, 330, 0.01%, 0.1 W, 0805	0805
R29, R30, R34, R37, R43, R44	6	33k	URG2012L-333-L-T05	Susumu Co Ltd	RES, 33 k, 0.01%, 0.1 W, 0805	0805
R32	1	150Meg	HVCB0805JDD150M	Stackpole Electronics Inc	RES, 150 M, 5%, 0.2 W, 0805	0805
R52, R54	2	180	CRCW0402180RJNED	Vishay-Dale	RES, 180, 5%, 0.063 W, 0402	0402
R53	1	510	CRCW0402510RJNED	Vishay-Dale	RES, 510, 5%, 0.063 W, 0402	0402
R58, R59	2	1.00	CRCW04021R00FKED	Vishay-Dale	RES, 1.00, 1%, 0.063 W, 0402	0402
S1, S2	2		200USP9T1A1M2RE	E-Switch	Switch, Toggle, SPST, 1Pos, TH	Switch, 7.0x9.6x4.5mm
S3, S4, S5, S6	4		219-2LPST	CTS Electrocomponents	Switch, Slide, SPST 2 poles, SMT	2 poles SPST Switch
U1	1		ADS1220IPWR	Texas Instruments	Low-Power, Low-Noise, 24-Bit Analog-to-Digital Converter for Small Signal Sensors, PW0016A	PW0016A
U4	1		TS5A21366DCUR	Texas Instruments	0.75-Ohm DUAL SPST ANALOG SWITCH WITH 1.8-V COMPATIBLE INPUT LOGIC, DCU0008A	DCU0008A
U5	1		MSP430G2553IPW20	Texas Instruments	16 MHz Mixed Signal Microcontroller with 16 KB Flash, 512 B SRAM and 24 GPIOs, -40 to 85 degC, 20-pin SOP (PW), Green (RoHS & no Sb/Br)	PW0020A
U6	1		LP5907MFX-3.3/NOPB	Texas Instruments	ULTRA LOW-NOISE, 250-mA LINEAR REGULATOR FOR RF AND ANALOG CIRCUITS REQUIRES NO BYPASS CAPACITOR, DBV0005A	DBV0005A
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
U2, U3	0		TPD4E1U06DCKR	Texas Instruments	Quad Channel High Speed ESD Protection Device, DCK0006A	DCK0006A