

TIDA-01409 REV E2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB	1		TIDA-01409	Any	Printed Circuit Board	
C1	1	10uF	UMK325AB7106KMHT	Taiyo Yuden	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C2	1	4.7uF	C2012X7R1A475M125AC	TDK	CAP, CERM, 4.7 µF, 10 V, +/- 20%, X7R, 0805	0805
C3, C4	2	33pF	CL10C330FB8NNNC	Samsung Electro-Mechanics	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C5	1	1uF	GRM188R70J105KA01D	MuRata	CAP, CERM, 1 µF, 6.3 V, +/- 10%, X7R, 0603	0603
C6	1	0.1uF	C0603C104K8RACTU	Kemet	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7R, 0603	0603
C7, C8	2	0.01uF	0603ZC103KAT2A	AVX	CAP, CERM, 0.01 µF, 10 V, +/- 10%, X7R, 0603	0603
D1	1	45V	BYS10-45HE3/TR	Vishay-Semiconductor	Diode, Schottky, 45 V, 1.5 A, AEC-Q101, SMA	SMA
J1, J4, J5	3		1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
J2, J3	2		SSW-110-01-T-S	Samtec	Receptacle, 2.54mm, 10x1, Tin, TH	Receptacle, 2.54mm, 10x1, TH
L1, L2	2	18uH	CMH322522-180KL	Bourns	Inductor, Shielded, Ferrite, 18 µH, 0.12 A, 3.3 ohm, SMD	3.2x2.2x2.5mm
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
R1	1	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
R3	1	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
R4, R5	2	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
S1	1		JS202011CQN	C&K Components	Slide Switch, DPDT, 0.3A 6VDC, TH	DPDT SW, 3.6x5.5x9mm
U1	1		TPS7B6933QDBVRQ1	Texas Instruments	High Voltage Ultra Low Iq - Low Drop Out Regulator, DBV0005A (SOT-5)	DBV0005A
U2	1		FDC2212QDNTRQ1	Texas Instruments	Multi-Channel 12-Bit or 28-Bit Capacitance-to-Digital Converter (FDC) for Capacitive Sensing, DNT0012B (WSON-12)	DNT0012B
U3	1		SN74LVC1G04QDBVRQ1	Texas Instruments	Automotive Catalog Single Inverter, DBV0005A (SOT-5)	DBV0005A
Y1	1		DSC1001BI1-040.0000	Microchip	OSC, 4MHz, CMOS, 1.8 to 3.3V, SMD	5x3.2mm
C9, C10, C11, C12, C13, C14, C15, C16	0	18pF	GRM1885C2A180JA01D	MuRata	CAP, CERM, 18 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
L3, L4	0		SRF3216-222Y	Bourns	Inductor, Wirewound, Ferrite, 0.2 A, 1.2 ohm, SMD	3.2x2.0x1.6mm
R2	0	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402

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