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TIDA-01590 REV R1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		TIDA-01590	Any	Printed Circuit Board	
2	ALERT, SCL, SDA, TP2, VCC_HV	5		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
3	C1, C6	2	10uF	GRM188R61C106MAALD	MuRata	CAP, CERM, 10 µF, 16 V, +/- 20%, X5R, 0603	0603
4	C2	1	1uF	C0603C105K8PACTU	Kemet	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0603	0603
5	C3, C7, C8, C10, C11	5	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
6	C4	1	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
7	C5	1	2.2uF	C1608X7R1A225K080AC	TDK	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X7R, 0603	0603
8	C9	1	1000pF	0603ZC102KAT2A	AVX	CAP, CERM, 1000 pF, 10 V, +/- 10%, X7R, 0603	0603
9	C12	1	10pF	0603ZC100KAT2A	AVX	CAP, CERM, 10 pF, 10 V, +/- 10%, X7R, 0603	0603
10	D1, D2	2	40V	RB751S40	Fairchild Semiconductor	Diode, Schottky, 40 V, 0.03 A, SOD-523F	SOD-523F
11	D3, D4, D5	3	40V	BAS40-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.2 A, SOT-23	SOT-23
12	F1, F2	2		SSQ 15	Bel Fuse	Fuse, 15 A, SMD	6.1x2.54x2.54mm
13	GND_HV	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
14	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
15	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
16	J1	1		800-10-002-10-001000	Mill-Max	Header, 100mil, 2x1, TH	Header, 2x1, 100mil, TH
17	J2, J3	2		282841-2	TE Connectivity	Terminal Block, 2x1, 5.08mm, TH	10.16x15.2x9mm
18	J4, J5	2		SSQ-110-03-F-S	Samtec	Receptacle, 2.54mm, 10x1, Gold, TH	10x1 Receptacle
19	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
20	Q1	1	40 V	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
21	R1	1	7.50k	RC0603FR-077K5L	Yageo America	RES, 7.50 k, 1%, 0.1 W, 0603	0603
22	R2	1	3.12k	RT0603BRD073K12L	Yageo America	RES, 3.12 k, 0.1%, 0.1 W, 0603	0603
23	R3	1	2.49k	RT0603BRD072K49L	Yageo America	RES, 2.49 k, 0.1%, 0.1 W, 0603	0603
24	R4	1	1.10k	RT0603BRD071K1L	Yageo America	RES, 1.10 k, 0.1%, 0.1 W, 0603	0603
25	R5	1	1.45k	RT0603BRD071K45L	Yageo America	RES, 1.45 k, 0.1%, 0.1 W, 0603	0603
26	R6	1	84.5	RT0603BRD0784R5L	Yageo America	RES, 84.5, 0.1%, 0.1 W, 0603	0603
27	R7	1	612	RT0603BRD07612RL	Yageo America	RES, 612, 0.1%, 0.1 W, 0603	0603
28	R8	1	2.00k	RT0603BRD072KL	Yageo America	RES, 2.00 k, 0.1%, 0.1 W, 0603	0603
29	R9, R10, R11	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
30	T1	1	110uH	750315240	Würth Elektronik	Transformer, 110 uH, SMT	10.41x12.32mm
31	U1	1		SN6505ADBVR	Texas Instruments	Low-Noise 1-A Transformer Driver for Isolated Power Supplies, Internal Clock-160kHz, DBV0006A (SOT-23-6)	DBV0006A
32	U2	1		TPS70933DBVR	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input Low-Dropout Regulator with Reverse Current Protection, DBV0005A (SOT-23-5)	DBV0005A
33	U3, U5	2		INA260AIPWR	Texas Instruments	Integrated Shunt High-Side or Low-Side Measurement, Bi-Directional Current and Power Monitor with I2C Compatible Interface, PW0016A (TSSOP-16)	PW0016A
34	U4	1		ISO7842DWW	Texas Instruments	5.7 kVrms, 100 Mbps, Reinforced 4-Channel 2/2 Digital Isolator, DWW0016A (SOIC-16)	DWW0016A
35	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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