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TIDA-01513 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-01513	Any	Printed Circuit Board	
2	C1, C9, C12, C14, C19	5	10uF	LMK212BJ106KD-T	Taiyo Yuden	CAP, CERM, 10 µF, 10 V, +/- 10%, X5R, 0805	0805
3	C2, C4, C6, C8, C10, C11, C13, C15, C16, C17, C18, C22, C23	13	0.1uF	CL05B104KP5NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7R, 0402	0402
4	C3, C5	2	10uF	C1608X7S0J106M080AC	TDK	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X7S, 0603	0603
5	C7	1	0.01uF	0402ZC103KAT2A	AVX	CAP, CERM, 0.01 µF, 10 V, +/- 10%, X7R, 0402	0402
6	C20, C21	2	1200pF	GRM1885C1H122JA01D	MuRata	CAP, CERM, 1200 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
7	D1, D2, D3, D4	4	40V	ZHCS400TA	Diodes Inc.	Diode, Schottky, 40 V, 0.4 A, SOD-323	SOD-323
8	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
9	HV NEG, HV POS	2		1593-2	Keystone	Terminal, Turret, TH, Double	Keystone1593-2
10	J1	1		1725711	Phoenix Contact	Terminal Block, 8x1, 2.54 mm, TH	8POS Terminal Block
11	Q1, Q2	2	50V	BSS138	Fairchild Semiconductor	MOSFET, N-CH, 50 V, 0.22 A, SOT-23	SOT-23
12	R1, R2, R3, R4, R5, R6, R14, R15, R16, R17, R18, R21, R22, R23, R24, R25	16	56.0	MMB02070C5609FB200	Vishay/Beyschlag	RES, 56.0, 1%, 0.4 W, 2.2x5.8mm	2.2x5.8mm
13	R7, R9, R30	3	1.00k	ERJ-3EKF1001V	Panasonic	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
14	R8, R10, R31, R32	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
15	R11, R12, R19	3	2.00k	CPF0603B2K0E	TE Connectivity	RES, 2.00 k, 0.1%, 0.063 W, 0603	0603
16	R13, R20	2	10.0k	TNPW060310K0BEEA	Vishay-Dale	RES, 10.0 k, 0.1%, 0.1 W, AEC-Q200 Grade 1, 0603	0603
17	R26, R27, R28, R29	4	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
18	R33, R34	2	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
19	R35, R36	2	20k	ERJ-2GEJ203X	Panasonic	RES, 20 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
20	T1	1	475uH	760390014	Würth Elektronik	Transformer, 475uH, SMT	10.05x4.19x6.73 mm
21	U1	1		SN6501QDBVRQ1	Texas Instruments	Automotive Low-Noise 350 mA, 410 kHz Transformer Driver, DBV0005A (SOT-5)	DBV0005A
22	U2	1		TPS76350QDBVRQ1	Texas Instruments	Single Output Automotive LDO, 150 mA, Fixed 5 V Output, 2.7 to 10 V Input, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
23	U3	1		AMC1301DWVR	Texas Instruments	Precision +/-250-mV Input, 3-us Delay, Reinforced Isolated Amplifier, DWV0008A (SOIC-8)	DWV0008A
24	U4	1		TL4050B25QDBZRQ1	Texas Instruments	Automotive Catalog Precision Micropower Shunt Voltage Reference, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
25	U5	1		OPA2348AQDRQ1	Texas Instruments	Automotive Catalog 1 MHz, 45 uA, RRIO, Dual Operational Amplifier, 2.1 to 5.5 V, -40 to 125 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Br)	D0008A
26	U6	1		1462041-3	TE Connectivity	Relay, SPST-NO (1 Form A), 2 A, 12 V, SMD	Relay, 10x5.65x6.0mm
27	U7	1		1462041-7	TE Connectivity	Relay, SPST-NO (1 Form A), 2 A, 5 V, SMD	Relay, 10x5.65x6.0mm
28	U8	1		REF5025AQDRQ1	Texas Instruments	Automotive Catalog, Low Noise, Very Low Drift, Precision Voltage Reference, -40 to 125 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br)	D0008A
29	U9	1		OPA320AIDBVR	Texas Instruments	Precision, 20 MHz, 0.9 pA Ib, RRIO, CMOS Operational Amplifier, 1.8 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br)	DBV0005A

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