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TIDA-01514 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-01514	Any	Printed Circuit Board	
2	C1	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
3	C2	1	1uF	GCM188R71C105KA64D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
4	C3	1	2.2uF	GRM31CR71H225KA88L	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206	1206
5	C4, C6, C7, C8	4	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
6	C5	1	0.01uF	0603ZC103KAT2A	AVX	CAP, CERM, 0.01 uF, 10 V, +/- 10%, X7R, 0603	0603
7	C10	1	4.7uF	C3216X7R1E475K085AB	TDK	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, 1206	1206
8	D1	1	20V	MBR120LSFT1G	ON Semiconductor	Diode, Schottky, 20 V, 1 A, SOD-123FL	SOD-123FL
9	D2	1	15V	SMBJ15A-13-F	Diodes Inc.	Diode, TVS, Uni, 15 V, 24.4 Vc, SMB	SMB
10	D3, D4, D5	3	Red	LTST-C170KRKT	Lite-On	LED, Red, SMD	Red 0805 LED
11	H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
12	J1	1		112404	Amphenol Connex	Connector, TH, BNC	Amphenol_112404
13	J2	1		282841-2	TE Connectivity	Terminal Block, 2x1, 5.08mm, TH	10.16x15.2x9mm
14	J3	1		PEC04DAAN	Sullins Connector Solutions	Header, 100mil, 4x2, Tin, TH	Header, 4x2, 100mil, Tin
15	R1	1	0.18	MCR25JZHFLR180	Rohm	RES, 0.18, 1%, 0.5 W, 1210	1210
16	R2	1	82.5k	CRCW060382K5FKEA	Vishay-Dale	RES, 82.5 k, 1%, 0.1 W, 0603	0603
17	R3	1	475k	CRCW0603475FKEA	Vishay-Dale	RES, 475 k, 1%, 0.1 W, 0603	0603
18	R4	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
19	R5	1	1.35k	RT0603DRE071K35L	Yageo America	RES, 1.35 k, 0.5%, 0.1 W, 0603	0603
20	R6, R7, R15, R16	4	4.75k	CRCW06034K75FKEA	Vishay-Dale	RES, 4.75 k, 1%, 0.1 W, 0603	0603
21	R8	1	18.7k	CRCW060318K7FKEA	Vishay-Dale	RES, 18.7 k, 1%, 0.1 W, 0603	0603
22	R9	1	10.0	CRCW060310R0FKEAHP	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 0603	0603
23	R10, R14	2	61.9k	CRCW060361K9FKEA	Vishay-Dale	RES, 61.9 k, 1%, 0.1 W, 0603	0603
24	R11	1	15.8k	CRCW060315K8FKEA	Vishay-Dale	RES, 15.8 k, 1%, 0.1 W, 0603	0603
25	R12	1	21.0k	CRCW060321K0FKEA	Vishay-Dale	RES, 21.0 k, 1%, 0.1 W, 0603	0603
26	R13	1	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, 0603	0603
27	SH-J1	1	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt
28	TP1, TP2, TP12	3		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
29	TP3, TP6	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
30	TP4, TP5, TP7, TP8, TP9, TP10, TP11	7		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
31	U1	1		TPS25940AQRVCRQ1	Texas Instruments	2.7V to 18V eFuse with Integrated Short-to-Battery Protection, RVC0020A (WQFN-20)	RVC0020A
32	U2	1		INA211BQDCKRQ1	Texas Instruments	Automotive-Grade, Voltage Output, Low- or High-Side Measurement, Bidirectional, Zero-Drift Series, Current-Shunt Monitor, DCK0006A (SOT-SC70-6)	DCK0006A
33	U3	1		TPS3710QDSEERQ1	Texas Instruments	Automotive Grade Wide VIN Voltage Detector, DSE0006A (WSON-6)	DSE0006A
34	U4	1		LM4040QCIM3X2.5/NOPB	Texas Instruments	Precision Micropower Shunt Voltage Reference, DBZ0003A (SOT-23-3)	DBZ0003A
35	C9	0	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	0603
36	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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