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TIDA-020000 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC1	1		TIDA-020000	Any	Printed Circuit Board	
2	C1	1	4.7uF	CGA4J1X7R1E475M125AC	TDK Corporation	CAP, CERM, 4.7uF, 25V, +/-20%, X7R, 0805	0805 (2012 Metric)
3	C2	1	0.1uF	C1005X7R1E104K050BB	TDK Corporation	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0402	0402 (1005 Metric)
4	C3	1	10uF	C3216X7R1E106M160AE	TDK	CAP, CERM, 10 uF, 25 V,+/- 20%, X7R, 1206	1206
5	C4	1	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22uF, 10V, +/-10%, X7R, 1206	1206
6	C5, C9, C11, C13	4	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
7	C6	1	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	0402
8	C7, C10, C12	3	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
9	C8	1	10uF	GRM21BR71A106ME51L	MuRata	CAP, CERM, 10 uF, 10 V,+/- 20%, X7R, 0805	0805
10	C14, C16, C18, C20, C22	5	10uF	CL21B106KOQNNNE	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 16 V, +/- 10%, X7R, 0805	0805
11	C15, C17, C19, C21, C23, C32, C35, C40, C43	9	0.1uF	0402YC104KAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
12	C24, C26, C29	3	1.0uF	CL05B105KQ5NQC	Samsung Electro-Mechanics America, Inc	CAP CER 1UF 6.3V 10% X7R 0402	0402 (1005 Metric)
13	C25, C27, C30, C34, C37, C42	6	0.01uF	GRM155R71C103KA01D	MuRata	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0402	0402
14	C28	1	0.033uF	CGA2B3X7R1H333K050BB	TDK	CAP, CERM, 0.033 uF, 50 V, +/- 10%, X7R, 0402	0402
15	C31	1	0.015uF	CGA2B3X7R1H153K050BB	TDK	CAP, CERM, 0.015 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
16	C33, C36, C41	3	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V,+/- 20%, X7R, 0603	0603
17	C38	1	1uF	GRM155R70J105MA12D	MuRata	CAP, CERM, 1 uF, 6.3 V,+/- 20%, X7R, 0402	0402
18	C39	1	0.022uF	GRM155R70J223KA01D	MuRata	CAP, CERM, 0.022 uF, 6.3 V, +/- 10%, X7R, 0402	0402
19	J1	1		59S10H-40ML5-Y	Rosenberger	Straight Plug PCB	SMA
20	L1	1	10uH	LQH3NPZ100MJRL	MuRata	Inductor, Wirewound, Ferrite, 10 uH, 0.81 A, 0.288 ohm, AEC-Q200 Grade 1, SMD	3x3mm
21	L2	1	3.3uH	XPL2010-332MLB	Coilcraft	Inductor, Shielded, Composite, 3.3 uH, 1.05 A, 0.21 ohm, SMD	XPL2010
22	L3, L4, L5	3	1500 ohm	BLM18HE152SN1D	MuRata	Ferrite Bead, 1500 ohm @ 100 MHz, 0.5 A, 0603	0603
23	L6	1	1000 ohm	BLM18AG102SN1D	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 0.4 A, 0603	0603
24	L7	1	2.2uH	LQM2MPN2R2NG0	MuRata	Inductor, Multilayer, Ferrite, 2.2 uH, 1.2 A, 0.11 ohm, SMD	2.0x1.6mm
25	L13, L14, L15	3	1000 ohm	BLM15AX102SN1D	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 0.35 A, 0402	0402
26	LH1	1		CMT821	Sunex Inc.	Sunex Lens Holder	
27	R1	1	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, 0603	0603
28	R2	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
29	R3, R4	2	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
30	R8, R9	2	1.5k	CRCW04021K50JNED	Vishay-Dale	RES, 1.5 k, 5%, 0.063 W, 0402	0402
31	R10, R13	2	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10k ohm, 5%, 0.063W, 0402	0402
32	R11	1	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9 ohm, 1%, 0.063W, 0402	0402
33	R14	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, 0402	0402
34	R15	1	402	CRCW0402402RFKED	Vishay-Dale	RES, 402, 1%, 0.063 W, 0402	0402
35	R16, R17, R18, R19, R20	5	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	U1	1		TPS62162QDSGRQ1	Texas Instruments	3V-17V 1A Automotive Step-Down Converters in 2x2SON, DSG0008A (WSON-8)	DSG0008A
37	U2	1		TPS3703A4120DSERQ1	Texas Instruments	Automotive High-Accuracy Window Supervisor With Reset Time Delay and Manual Reset, DSE0006A (WSON-6)	DSE0006A
38	U3	1		TPS650002TRTERQ1	Texas Instruments	2.25MHz Step-Down Converter with Dual LDOs & SVS Power Management IC (PMIC), RTE0016C (WQFN-16)	RTE0016C
39	U4	1		TPS3703A4180DSERQ1	Texas Instruments	Automotive High-Accuracy Window Supervisor With Reset Time Delay and Manual Reset, DSE0006A (WSON-6)	DSE0006A
40	U5	1		TPS3703A4280DSERQ1	Texas Instruments	Automotive High-Accuracy Window Supervisor With Reset Time Delay and Manual Reset, DSE0006A (WSON-6)	DSE0006A
41	U6	1		AR0233AT1C00XJEA0-DPBR-E	ON Semiconductor	1/2.5-Inch CMOS Digital Image Sensor, IBGA-80	IBGA,-80
42	U7	1		DS90UB953TRHBRQ1	Texas Instruments	2MP MIPI CSI-2 FPD-Link III Serializer for 2MP/60fps Cameras and RADAR, RHB0032P (VQFN-32)	RHB0032P
43	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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