None
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TIDA-01130 REV E3 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-01130	Any	Printed Circuit Board	
C1	1	4.7µF	CGA4J1X7R1E475M125AC	TDK Corporation	CAP, CERM, 4.7uF, 25V, +/-20%, X7R, 0805	0805 (2012 Metric)
C2	1	0.1µF	C1005X7R1E104K050BB	TDK Corporation	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0402	0402 (1005 Metric)
C3, C6, C10, C13, C17, C20, C25, C28	8	1.0µF	CL05B105KQ5NQNC	Samsung Electro-Mechanics America, Inc	CAP CER 1UF 6.3V 10% X7R 0402	0402 (1005 Metric)
C4, C9, C12, C16, C19, C24, C27	7	10uF	CL21B106KOQNNNE	Samsung Electro-Mechanics	CAP, CERM, 10 µF, 16 V, +/- 10%, X7R, 0805	0805
C5	1	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22uF, 10V, +/-10%, X7R, 1206	1206
C8, C11, C15, C18, C23, C26, C30, C32, C34, C38, C41, C45, C48	13	0.1uF	0402YC104KAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
C14, C22, C29	3	0.47uF	JMK105B7474KVHF	Taiyo Yuden	CAP, CERM, 0.47 µF, 6.3 V, +/- 10%, X7R, 0402	0402
C21	1	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0402	0402
C31, C33, C35, C40, C43, C47	6	0.01uF	GRM155R71C103KA01D	MuRata	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0402	0402
C36	1	0.033uF	CGA2B3X7R1H333K050BB	TDK	CAP, CERM, 0.033 µF, 50 V, +/- 10%, X7R, 0402	0402
C37	1	0.015uF	CGA2B3X7R1H153K050BB	TDK	CAP, CERM, 0.015 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C39, C42, C46	3	4.7uF	JMK107BB7475MA-T	Taiyo Yuden	CAP, CERM, 4.7 µF, 6.3 V, +/- 10%, X7R, 0603	0603
C44	1	0.022uF	GRM155R70J223KA01D	MuRata	CAP, CERM, 0.022 µF, 6.3 V, +/- 10%, X7R, 0402	0402
C49	1	0.47uF	GRM155R60J474KE19D	MuRata	CAP, CERM, 0.47 µF, 6.3 V, +/- 10%, X5R, 0402	0402
FID1, FID2, FID3, FID4, FID5, FID6	6		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
L1	1	2.2uH	XPL2010-222MLB	Coilcraft	Inductor, Shielded, Composite, 2.2 µH, 1.3 A, 0.16 ohm, SMD	XPL2010
L2, L3, L4	3	1500 ohm	BLM18HE152SN1D	MuRata	Ferrite Bead, 1500 ohm @ 100 MHz, 0.5 A, 0603	0603
L5	1	10uH	LQH3NPZ100MJRL	MuRata	Inductor, Wirewound, Ferrite, 10 µH, 0.5 A, 0.57 ohm, SMD	3.0x0.9x3.0mm
L6	1	1000 ohm	BLM18AG102SN1D	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 0.4 A, 0603	0603
L7	1	47uH	ADL3225V-470M-2P	TDK	Inductor, Wirewound, 47 µH, 0.35 A, 1.3 ohm, SMD	3.2x2.5mm
L9, L10, L11, L12, L14, L15, L16	7	1000 ohm	BLM15AX102SN1D	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 0.35 A, 0402	0402
L13	1	220nH	NLCV32T-R22M-PFR	TDK	Inductor, Wirewound, Ferrite, 220 nH, 2.4 A, 0.027 ohm, SMD	3.2x2.2x2.5mm
LH1	1		CMT821	Sunex Inc.	Sunex Lens Holder	
P1	1		59S10H-40ML5-Y	Rosenberger	Straight Plug PCB	SMA
R1	1	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, 0603	0603
R2	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
R3, R8, R11, R13, R14	5	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10k ohm, 5%, 0.063W, 0402	0402
R9, R10	2	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, 0402	0402
R12	1	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9 ohm, 1%, 0.063W, 0402	0402
R15, R16	2	402	CRCW0402402RFKED	Vishay-Dale	RES, 402, 1%, 0.063 W, 0402	0402
U1	1		TLV70213DSERQ1	Texas Instruments	Automotive 300mA, Low IQ, Low-Dropout Regulator, DSE0006A (WSON-6)	DSE0006A

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U2	1		TPS62172QDSGRQ1	Texas Instruments	3-V to17-V 0.5-A Step-Down Converters with DCS-Control™, DSG0008A (WSON-8)	DSG0008A
U3	1		TLV70218DSERQ1	Texas Instruments	Automotive 300mA, Low IQ, Low-Dropout Regulator, DSE0006A (WSON-6)	DSE0006A
U4	1		OV02775-E77Y-1A-Z	OmniVision Technologies	Color CMOS 1080p (1920x1080) high dynamicrange(HDR) high definition image sensor, aCSP-77	77-BGA
U5	1		DS90UB953QRHBQ1	Texas Instruments	FPD-Link III SerDes with CSI-2 interfaces for 2.3MP/60fps camera, RHB0032B	RHB0032B

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