

## TIDA-10613 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB1	1		TIDA-10613	Any	Printed Circuit Board	
C1, C6	2	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
C2	1	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100pF, 100V, +/-5%, C0G/NP0, 0603	0603
C3	1	68uF	16TQC68MYF	Panasonic	CAP, TA, 68uF, 16V, +/-20%, 0.05 ohm, SMD	7.3x2.0x4.3mm
C4	1	47uF	GRM32ER61C476ME15L	MuRata	CAP, CERM, 47uF, 16V, +/-20%, X5R, 1210	1210
C5	1	330uF	EEF-GX0D331R	Panasonic	CAP, TA, 330uF, 2 V, +/- 20%, 0.003 ohm, SMD	SMD_7.3x1.9x4.3mm
C7	1	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22uF, 10 V, +/- 10%, X7R, 1206	1206
C8	1	0.1uF	GRM188R61E104KA01D	MuRata	CAP, CERM, 0.1uF, 25V, +/-10%, X5R, 0603	0603
C9	1	10uF	GRM21BR61E106MA73	MuRata	CAP, CERM, 10uF, 25V, +/-20%, X5R, 0805	0805
C10	1	22uF	GRM21BR60J226ME39L	MuRata	CAP, CERM, 22uF, 6.3V, +/-20%, X5R, 0805	0805
C11	1	3300pF	GRM155R71H332KA01D	MuRata	CAP, CERM, 3300pF, 50V, +/-10%, X7R, 0402	0402
C12	1	220uF	EEFSX0G221ER	Panasonic	CAP, AL, 220uF, 4V, +/-20%, 9 ohm, SMD	7.3x1.8x4.3mm
C13, C14, C15, C16	4	47uF	GRM32ER60J476ME20L	MuRata	CAP, CERM, 47uF, 6.3V, +/-20%, X5R, 1210	1210
C17, C18, C19, C36	4	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1uF, 25 V, +/- 10%, X5R, 0402	0402
C20	1	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0603	0603
C21, C22	2	22uF	EEE-FC1C220R	Panasonic	CAP, AL, 22uF, 16V, +/-20%, 1.8 ohm, SMD	SMT Radial C
C23, C29	2	10uF	GRM188R60J106ME47D	MuRata	CAP, CERM, 10uF, 6.3 V, +/- 20%, X5R, 0603	0603
C24, C25, C26, C27	4	47uF	GRM32ER61C476KE15L	MuRata	CAP, CERM, 47uF, 16V, +/-10%, X5R, 1210	1210
C28	1	470uF	EEF-GX0E471L	Panasonic	CAP, TA, 470uF, 2.5 V, +/- 20%, 0.003 ohm, SMD	SMD_7.3x1.9x4.3mm
C30, C31, C32, C33, C34	5	100uF	GRM32ER60J107ME20L	MuRata	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	1210
C35, C37	2	10uF	GRM21BR61A106KE19L	MuRata	CAP, CERM, 10 uF, 10 V, +/- 10%, X5R, 0805	0805
C38, C39	2	10uF	GRM21BR61E106MA73	MuRata	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0805	0805
C40	1	0.033uF	C0805C333K5RACTU	Kemet	CAP, CERM, 0.033 uF, 50 V, +/- 10%, X7R, 0805	0805
C41	1	100pF	GRM1535C1H101JDD5D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
D1	1	5.1V	BZT52C5V1T-7	Diodes Inc.	Diode, Zener, 5.1V, 300mW, SOD-523	SOD-523
H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
J1	1		ED120/2DS	On-Shore Technology	TERMINAL BLOCK 5.08MM VERT 2POS, TH	TERM_BLK, 2pos, 5.08mm
J2	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
J3, J4, J5, J6	4		6095	Keystone	Standard Banana Jack, Uninsulated	Keystone 6095
L1	1	10uH	XAL4040-103MEB	Coilcraft	Inductor, Shielded, Composite, 10uH, 3A, 0.084 ohm, SMD	4.0x4.1x4.0mm
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
R1	1	68.1k	CRCW060368K1FKEA	Vishay-Dale	RES, 68.1k ohm, 1%, 0.1W, 0603	0603
R2	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9 ohm, 1%, 0.1W, 0603	0603
R3	1	12.1k	CRCW060312K1FKEA	Vishay-Dale	RES, 12.1k ohm, 1%, 0.1W, 0603	0603
R4	1	1.13k	CRCW06031K13FKEA	Vishay-Dale	RES, 1.13 k, 1%, 0.1 W, 0603	0603
R5	1	105k	RT0603BRD07105KL	Yageo America	RES, 105k ohm, 0.1%, 0.1W, 0603	0603
R6	1	22.1k	CRCW060322K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.1 W, 0603	0603
R7	1	324k	CRCW0603324KFKFA	Vishay-Dale	RES, 324 k, 1%, 0.1 W, 0603	0603
R8, R9, R10, R13, R16	5	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100k ohm, 5%, 0.1W, 0603	0603
R11	1	21.5k	CRCW040221K5FKED	Vishay-Dale	RES, 21.5 k, 1%, 0.063 W, 0402	0402
R12	1	178k	CRCW0402178KFKED	Vishay-Dale	RES, 178 k, 1%, 0.063 W, 0402	0402

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R14	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0 ohm, 1%, 0.1W, 0603	0603
R15	1	1.50Meg	CRCW04021M50FKED	Vishay-Dale	RES, 1.50 M, 1%, 0.063 W, 0402	0402
R17	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R18	1	2.18k	RT0603DRE072K18L	Yageo America	RES, 2.18 k, 0.5%, 0.1 W, 0603	0603
SH-J1	1	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt
TP1	1	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP2, TP4, TP6, TP8, TP9, TP10, TP14, TP16	8	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP3, TP5, TP7, TP11, TP12, TP13, TP15, TP17	8	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		LP2998QMR/NOPB	Texas Instruments	DDR-I and DDR-II Termination Regulator, 8-pin PSOP, Pb-Free	MRA08A
U2	1		TPS560200DBV	Texas Instruments	4.5V to 18V Input, 500mA Synchronous Step Down SWIFT Converter, DBV0005A	DBV0005A
U3	1		LMZ31503RUQ	Texas Instruments	3A SIMPLE SWITCHER Power Module with 4.5V-14.5V Input in QFN Package, RUQ0047A	RUQ0047A
U4	1		LM3880QMFE-1AA/NOPB	Texas Instruments	Power Sequencer, 6-pin SOT-23, Pb-Free	MF06A
U5	1		TPS73101DBV	Texas Instruments	Cap-Free, NMOS, 150mA Low Dropout Regulator with Reverse Current Protection, DBV0005A	DBV0005A
U6	1		LMZ31520RLG	Texas Instruments	20A SIMPLE SWITCHER(R) Power Module with 3.0V-14.5V Input, RLG0072A	RLG0072A
U7	1		TPS7A3501DRV	Texas Instruments	Low Noise, High PSRR 1A Active Filter, DRV0006A	DRV0006A
U8	1		LP3892EMR-1.2/NOPB	Texas Instruments	1.5A Fast-Response Ultra Low Dropout Linear Regulators, 8-pin PSOP, Pb-Free	MRA08A
U9	1		LP3981ILD-2.5/NOPB	Texas Instruments	Micropower, 300mA Ultra Low-Dropout CMOS Voltage Regulator, 6-pin LLP, Pb-Free	LDC06D
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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