

TIDA-010006 REV E2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB	1		TIDA-010006	Any	Printed Circuit Board	
C1, C4, C11, C14, C17, C20, C21, C24, C31	9	0.1uF	UMK212B7104KG-T	Taiyo Yuden	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0805	0805
C2, C10, C16, C23	4	10uF	GMK316AB7106KL	Taiyo Yuden	CAP, CERM, 10 uF, 35 V, +/- 10%, X7R, 1206	1206
C3, C8, C9, C12, C18, C22, C25	7	4.7uF	C3216X7R1H475K160AC	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1206	1206
C5, C7, C13, C19	4	22uF	EMK316BB7226ML-T	Taiyo Yuden	CAP, CERM, 22 uF, 16 V, +/- 20%, X7R, 1206_190	1206_190
C26, C27	2	220pF	GRM188R72A221KA01D	MuRata	CAP, CERM, 220 pF, 100 V, +/- 10%, X7R, 0603	0603
C29	1	10uF	EMVA500ADA100ME55G	Chemi-Con	CAP, AL, 10 uF, 50 V, +/- 20%, SMD	E55
C30	1	0.33uF	0805YC334KAT2A	AVX	CAP, CERM, 0.33 uF, 16 V, +/- 10%, X7R, 0805	0805
D1, D7, D9, D11	4	15V	MMSZ4702T1G	ON Semiconductor	Diode, Zener, 15 V, 500 mW, SOD-123	SOD-123
D2, D3, D5, D6, D8, D10	6	100V	B2100A-13-F	Diodes Inc.	Diode, Schottky, 100 V, 2 A, SMA	SMA
D4	1	51V	1SMB5942BT3G	ON Semiconductor	Diode, Zener, 51 V, 550 mW, SMB	SMB
D12	1	18V	MMSZ5248B-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
J1, J2	2		282834-2	TE Connectivity	Terminal Block, 2x1, 2.54mm, TH	Terminal Block, 2x1, 2.54mm, TH
JB1, JUT1, JVT1, JWT1	4		ED555/3DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 3-Pos, TH	10.5x8.2x6.5mm
L1	1	10uH	744042100	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 10 uH, 1 A, 0.12 ohm, SMD	WE-TPC-M1
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 x 0.200 inch
LD1, LD2, LD3, LD4	4	Green	LG L29K-G2J1-24-Z	OSRAM	LED SmartLED Green 570NM	0603
Q1	1	60 V	NSS60101DMTTBG	ON Semiconductor	Transistor, Dual NPN, 60 V, 1 A, AEC-Q101, 6-WDFN	6-WDFN
R1, R4, R11, R15	4	18.0k	RC0603FR-0718KL	Yageo	RES, 18.0 k, 1%, 0.1 W, 0603	0603
R2	1	9.10k	RC0603FR-079K1L	Yageo	RES, 9.10 k, 1%, 0.1 W, 0603	0603
R5, R14, R16	3	649	RC0805FR-07649RL	Yageo	RES, 649, 1%, 0.125 W, 0805	0805
R6, R9	2	261k	RT0603BRD07261KL	Yageo America	RES, 261 k, 0.1%, 0.1 W, 0603	0603
R7	1	210k	RC0603FR-07210KL	Yageo	RES, 210 k, 1%, 0.1 W, 0603	0603
R8, R12, R19	3	20.0k	RC0603FR-0720KL	Yageo America	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R10	1	665k	RC0603FR-07665KL	Yageo	RES, 665 k, 1%, 0.1 W, 0603	0603
R13	1	12.1k	RT0603DRE0712K1L	Yageo America	RES, 12.1 k, 0.5%, 0.1 W, 0603	0603
R17, R18	2	100	RG2012P-101-B-T5	Susumu Co Ltd	RES, 100, 0.1%, 0.125 W, 0805	0805
R20	1	2.21k	RG1608P-2211-B-T5	Susumu Co Ltd	RES, 2.21 k, 0.1%, 0.1 W, 0603	0603
T1	1	47uH	750343953	Würth Elektronik	Transformer, 47 uH, TH	Body 22.1x15.7mm
TP1, TP2	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		LM5180NGUT	Texas Instruments	70-V PSR Flyback Converter With 100-V, 1.2-A Power Switch and Ultra-Low IQ, NGU0008C (WSON-8)	NGU0008C
C6	0	0.12uF	C0805C124K1RACTU	Kemet	CAP, CERM, 0.12 uF, 100 V, +/- 10%, X7R, 0805	0805
C15	0	3900pF	GRM188R71H392KA01D	MuRata	CAP, CERM, 3900 pF, 50 V, +/- 10%, X7R, 0603	0603
C28	0	0.01uF	890334023006	Würth Elektronik	CAP, Film, 0.01 uF, 310 V, +/- 10%, TH	13x5x11mm
R3	0	3.48k	ERJ-8ENF3481V	Panasonic	RES, 3.48 k, 1%, 0.25 W, 1206	1206
R21	0	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	0805

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