

TIDA-00735 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		TIDA-00735	Any	Printed Circuit Board	
C1, C2, C4	3	1uF	C0603C105K8PACTU	Kemet	CAP	0603
C3	1	470 uF	330FWxxxV13x28	Surge	Capacitor, Aluminum, 50VDC, -10+20%	14.50 mm
C5, C6, C7, C17, C18	5	1000pF	C0603C102J5GAC	Kemet	CAP, CERM, 1000pF, 50V, +/-5%, C0G/NP0, 0603	0603
C8, C9	2	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210
C10	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603
C11	1	2.2uF	GRM219R61E225KA12D	MuRata	CAP, CERM, 2.2uF, 25V, +/-10%, X5R, 0805	0805
C12	1	0.22uF	C1608X7R1H223K	TDK	CAP, CERM, 0.22uF, 50V, +/-10%, X7R, 0603	0603
C14, C15, C16	3	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C19	1	1uF	GRM219R61E225KA12D	MuRata	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0805	0805
C20	1	0.1uF	C1608X7R1E104K	TDK	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
C21, C22	2	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0603	0603
D2	1		LTST-C190KRKT	Lite On	LED SUPER RED CLEAR 0603 SMD	3.2X1.6X1.1
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
P1, P2	3		(3-Pin 2.54mm)	N/A	Header, 3-Pin, Header, 3-Pin, [NoValue]	(3-Pin 2.54mm)
Q1, Q2, Q3, Q4, Q5, Q6	6	30V	CSD17573Q5B	Texas Instruments	MOSFET, N-CH, 30 V, 100 A, SON 5x6mm	SON 5x6mm
R2, R3	2	30k	CRCW060330K0JNEA	Vishay-Dale	RES, 30.0k, 5%, 0.1 W, 0603	0603
R4, R5	2	3.3k	CRCW06033K30JNEA	Vishay-Dale	RES, 3.3 k, 5%, 0.1 W, 0603	0603
R6	1	10K	CRCW06031R00JNEA	Vishay-Dale	RES, 1.0 ohm, 5%, 0.1W, 0603	0603
R7, R8, R10, R11, R12, R13	6	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10 ohm, 5%, 0.1W, 0603	0603
R9	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.1W, 0603	0603
R18	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R25	1	5mohm	HCJ2512ZT0R00	Panasonic	RES, 5 mohm, 63.2A JUMP, 2512	2512
R28	1	10K	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.1W, 0603	0603
R29, R30, R31, R32	4	95.3K	CRCW060310R0JNEA	Vishay-Dale	RES, 10 ohm, 5%, 0.1W, 0603	0603
R33, R34, R35, R36	4	4.99K	CRCW060310R0JNEA	Vishay-Dale	RES, 10 ohm, 5%, 0.1W, 0603	0603
U1	1		TPS70933DBVR	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input Low-Dropout Regulator	SOT-23
U2	1		MSP430G2553IPW28	Texas Instruments	Mixed Signal Microcontroller, PW0028A	PW0028A
U3	1		DRV8303DCA	Texas Instruments	THREE PHASE PRE-DRIVER WITH DUAL CURRENT SHUNT AMPLIFIERS, DCA0048A	DCA0048A

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