

Variant: 001
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TID #: TIDA-010990

TIDA-010990 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		TIDA-010990	Any	Printed Circuit Board	
2	C1, C3	2	4.7uF	GRM188Z71C475KE21D	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0603	0603
3	C2, C4, C6, C8	4	0.1uF	C2012X7R1H104K085AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0805	0805
4	C5, C7	2	0.1uF	0402YC104KAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
5	C9, C10, C11, C12	4	100pF	06035A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
6	C13, C14, C15, C16, C17, C18, C19, C20	8	0.1uF	C2012X7T2E104K125AA	TDK	CAP, CERM, 0.1 uF, 250 V, +/- 10%, X7T, 0805	0805
7	D1, D2	2	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMA	SMA
8	D3, D4, D5, D6	4	30V	VS-20BQ030HM3/5BT	Vishay-Semiconductor	Diode, Schottky, 30 V, 2 A, AEC-Q101, SMB	SMB
9	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
10	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
11	H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
12	J1	1		GRPB042MWCN-RC	Sullins Connector Solutions	Header, 1.27mm, 4x2, Gold, R/A, TH	Header, 1.27mm, 4x2, R/A, TH
13	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
14	Q1, Q2, Q3, Q4	4			Infineon Technologies	Insulated-Gate Field-Effect Transistor (IGFET), N-Channel, Enhancement, Body Diode, Pin 1 Gate, 2 Driver Source, 3 Power Source, 4 Power Source, 5 Power Source, 6 Power Source, 7 Power Source, 8 Drain, 8 Pins	PG-TO263-7-11
15	R1, R2	2	2	RC0805JR-072RL	Yageo America	RES, 2.0, 5%, 0.125 W, 0805	0805
16	R3, R4, R12, R14	4	0	MCR10EZPJ000	Rohm	RES, 0, 5%, 0.125 W, 0805	0805
17	R5, R8, R16, R17	4	1	RC0805JR-071RL	Yageo America	RES, 1.0, 5%, 0.125 W, 0805	0805
18	R6, R9, R15, R18	4	100k	RT0603BRD07100KL	Yageo America	RES, 100 k, 0.1%, 0.1 W, 0603	0603
19	R7, R10, R11, R13	4	10	TNPW060310R0BEEA	Vishay-Dale	RES, 10.0, 0.1%, 0.1 W, 0603	0603
20	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8	8		3621-0-32-15-00-00-08-0	Mill-Max		
21	U1, U2	2		UCC27712QDRQ1	Texas Instruments	620-V High-Side Low-Side Gate Driver with 2.5A Peak Output and RobustDrive, D0008A (SOIC-8)	D0008A
22	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A