

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, C2	2	4.7uF	GRM188Z71C475KE21D	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0603	0603
3	C3, C4	2	0.1uF	CGA2B3X7R1E104K050BB	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
4	C5, C6	2	4.7uF	GRM31CC72A475KE11L	Murata	4.7uF ±10% 100V Ceramic Capacitor X7S 1206 (3216 Metric)	1206
5	C7, C8	2	0.1uF	GRM155R62A104KE14D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X5R, 0402	0402
6	C9, C10, C11, C12	4	100pF	CC0402JRNPO9BN101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
7	C13, C14, C15, C16, C17, C18, C19, C20, C21	9	1uF	C2012X7S2A105K125AB	TDK	CAP, CERM, 1 uF, 100 V, +/- 10%, X7S, 0805	0805
8	D1, D2, D3, D4	4	30V	B130AF-13	Diodes Inc.	Diode, Schottky, 30 V, 1 A, SMAF	SMAF
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		850-40-006-20-001000	Mill-Max	Header, 1.27 mm, 6x1, Tin, R/A, TH	Header, 50mil, 6x1, 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, Q5, Q6, Q7, Q8	8	60V	CSD18540Q5B	Texas Instruments	MOSFET, N-CH, 60 V, 100 A, DNK0008A (VSON-CLIP-8)	DNK0008A
15	R1, R2, R7, R8	4	1.1	CRCW12061R10JNEA	Vishay-Dale	RES, 1.1, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
16	R3, R4, R9, R10	4	2	CRCW12062R00JNEA	Vishay-Dale	RES, 2.0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
17	R5, R6, R11, R12	4	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
18	R13, R14, R15, R16	4	100	RC0603FR-07100RL	Yageo	RES, 100, 1%, 0.1 W, 0603	0603
19	U1, U2	2		UCC27301A-Q1	Texas Instruments	Automotive 120V, 3.7A/4.5A Half-Bridge Driver with 8V UVLO, Interlock and Enable	SOIC8
20	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A