

Variant: 001
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TIDA-00795 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC B1	1		TIDA-00795	Any	Printed Circuit Board	
2	C1, C2, C3, C12	4	0.1uF	GRM188R72A104KA35J	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603
3	C4	1	0.1uF	GRM188R70J104KA01D	MuRata	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, X7R, 0603	0603
4	C5, C8	2	2.2uF	C1005X5R1E225K050BC	TDK	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X5R, 0402	0402
5	C6, C7	2	0.1uF	C0402C104K4RACAUTO	Kemet	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
6	C10	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	0603
7	C11	1	4.7uF	GRM188R61E475KE11D	MuRata	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X5R, 0603	0603
8	C13	1	100pF	C0402C101J3GACTU	Kemet	CAP, CERM, 100 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
9	D1, D3	2	28.2V	1.5SMC33CA-E3/57T	Vishay-Dale	Diode, TVS, Bi, 28.2 V, 1500 W, DO-214AB (no polarity)	DO-214AB (no polarity)
10	D2, D9	2	10V	DFLZ10-7	Diodes Inc.	Diode, Zener, 10 V, 1 W, PowerDI123	PowerDI123
11	D4	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
12	D6	1	30V	DB3X316N0L	Panasonic	Diode, Schottky, 30 V, 0.1 A, SOT-23	SOT-23
13	D7	1	Green	SM0603GCL	Bivar	LED, Green, SMD	0603 LED
14	D8	1	Red	HSMC-C190	Avago	LED, Red, SMD	0.8x1.6mm
15	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
16	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
17	J1	1		6095	Keystone	Standard Banana Jack, Uninsulated	Keystone 6095
18	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
19	Q1, Q2	2	-40V	IPD90P04P4L-04	Infineon Technologies	MOSFET, P-CH, -40 V, -90 A, AEC-Q101, DPAK	DPAK
20	Q3	1	45 V	BC817-16LT1G	ON Semiconductor	Transistor, NPN, 45 V, 0.5 A, SOT-23	SOT-23
21	Q4	1	50V	BSS138	Fairchild Semiconductor	MOSFET, N-CH, 50 V, 0.22 A, SOT-23	SOT-23
22	R1, R3	2	0.006	KRL7638-C-R006-F-T1	Susumu Co Ltd	RES, 0.006, 1%, 4 W, 3015 WIDE	3015 WIDE
23	R4, R11	2	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
24	R5, R6, R9, R10	4	1.00k	ERJ-2RKF1001X	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0402	0402
25	R7, R8	2	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
26	R12	1	10k	RC0603JR-0710KL	Yageo America	RES, 10 k, 5%, 0.1 W, 0603	0603
27	R13	1	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
28	R14, R15, R16, R17	4	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
29	R18, R23	2	2.26k	RT0603BRD072K26L	Yageo America	RES, 2.26 k, 0.1%, 0.1 W, 0603	0603
30	R24, R25	2	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
31	S1	1		7914G-1-000E	Bourns	Switch, Tactile, SPST-NO, 0.1A, 16V, SMT	4.93x4.19x6.2 mm
32	T1, T2	2	50A	CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY
33	TP1, TP2, TP6, TP7	4	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
34	TP3, TP4, TP8	3	Yellow	5004	Keystone	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint
35	TP5	1	Black	5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
36	U1, U2	2		INA300DGS-Q1	Texas Instruments	Automotive-Grade, High- or Low-Side, Current-Sense Comparator, DGS0010A	DGS0010A
37	U3	1		LM9036QMX-3.3/NOPB	Texas Instruments	Ultra-Low Quiescent Current Voltage Regulator, D0008A	D0008A
38	C9	0	100pF	C0402C101J3GACTU	Kemet	CAP, CERM, 100 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
39	D5	0	27V	1SMB5935BT3G	ON Semiconductor	Diode, Zener, 27 V, 550 mW, SMB	SMB
40	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
41	R2	0	10	CRCW060310R0JNEAHP	Vishay-Dale	RES, 10, 5%, 0.25 W, 0603	0603
42	R19, R20, R21, R22	0	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603

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