

Variant: 001
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TIDA-050058 REV Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603	603
2	C2	1	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	402
3	C3, C5	2	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	603
4	C4	1	1000pF	C0603C102J5RACAUTO	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, X7R, AEC-Q200 Grade 1, 0603	603
5	C6, C7, C12	3	0.1uF	GCM188R71E104KA57D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
6	C8, C9	2	1uF	GCM188R71E105KA64D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
7	C10	1	0.01uF	CGA2B3X7R1H103K050BB	TDK	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402
8	D1	1	30V	BAT54S-HF	Comchip Technology	Diode, Schottky, 30 V, 0.1 A, SOT-23	SOT-23
9	H1, H2, H3, H4	4		SJ-5017 (BLACK)	3M	Bumpon, Cylindrical, 0.75 X 0.38 inch, Black	Bumpon
10	J1, J4	2		393570002	Molex	Terminal Block, 3.5 mm, 2x1, Tin, TH	Terminal Block, 3.5 mm, 2x1, TH
11	J2	1		393570003	Molex	Terminal Block, 3.5 mm, 3x1, Tin, TH	Terminal Block, 3.5 mm, 3x1, TH
12	J3	1		PBC02DAAN	Sullins Connector Solutions	Header, 2.54mm, 2x2, Gold, TH	Header, 2.54mm, 2x2, TH
13	J5, J6	2		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
14	Q1, Q2	2		STB30N65M2AG	STMicroelectronics	MOSFET N-CH 650V 20A	D2PAK
15	R1	1	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
16	R2	1	7.32k	CRCW06037K32FKEA	Vishay-Dale	RES, 7.32 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
17	R3	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
18	R4	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
19	R5, R6, R8, R9	4	121k	CRCW2010121KFKF	Vishay-Dale	RES, 121 k, 1%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
20	R7	1	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	603
21	R10	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
22	S1	1		09.03201.02	EAQ Switch	Switch, SPDT, Slide, On-On, 2 Pos, TH	SPDT switch
23	SH-J1, SH-J2, SH-J3	3	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black	Shunt
24	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15	15		5019	Keystone	Test Point, Miniature, SMT	Test Point, Miniature, SMT
25	TP16	1		5013	Keystone	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
26	TP17	1		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
27	U1	1		TPSI3050QDWZRQ1	Texas Instruments	Automotive Reinforced Isolated Switch Driver With Integrated 10-V Gate Supply	SOIC8
28	U2	1				IC FF D-TYPE DUAL 2BIT 14TSSOP	
29	U4	1		AMC23C10DWVR	Texas Instruments	High-Speed Reinforced Differential Comparator w/ Reference, Open-Drain and Push-Pull Output	SOIC8
30	C11	0	10pF	0603ZC100KAT2A	AVX	CAP, CERM, 10 pF, 10 V, +/- 10%, X7R, 0603	603
31	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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