

Variant: 001
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 TID #: TIDA-020018



TIDA-020018 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-020018	Any	Printed Circuit Board	
2	C1	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	0603
3	C2, C4, C6, C7, C8, C11, C12, C13, C16, C18, C19, C20, C21	13	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
4	C3, C5	2	22uF	JMK212BJ226MG-T	Taiyo Yuden	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X5R, 0805	0805
5	C9, C10, C14, C15	4	0.01uF	CL10B103KB8NCNC	Samsung Electro-Mechanics	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
6	C17	1	0.22uF	C1005X7R1C224K050BC	TDK	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
7	D1, D2	2	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
8	D3	1	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
9	FID4, FID5, FID6	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
10	J1	1		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
11	J2, J3, J4, J5	4		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
12	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
13	R1	1	4.7k	CRCW06034K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
14	R2, R3, R4, R6	4	49.9	TNPW060349R9BEEA	Vishay-Dale	RES, 49.9, 0.1%, 0.1 W, AEC-Q200 Grade 1, 0603	0603
15	R5	1	0.0005	CSS2725FTL500	Stackpole Electronics Inc	RES, 0.0005, 1%, 4 W, RES_2725	RES_2725
16	R7, R11	2	12.1k	ERA-2AEB1212X	Panasonic	RES, 12.1 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
17	R8, R10	2	10.0k	RT0402BRD0710KL	Yageo America	RES, 10.0 k, .1%, .0625 W, 0402	0402
18	R9	1	50	FC0402E50R0BST1	Vishay-Dale	RES, 50, 0.1%, 0.05 W, 0402	0402
19	RShunt1	1	0.0015	PML100HJPJV1L5	Rohm	RES, 0.0015, 5%, 2 W, 2512 WIDE	2512 WIDE
20	T1	1	475uH	760390014	Würth Elektronik	Transformer, 475uH, SMT	10.05x4.19x6.73 mm
21	TP1, TP2	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
22	U1	1		SN6501QDBVRQ1	Texas Instruments	Automotive Low-Noise 350 mA, 410 kHz Transformer Driver, DBV0005A (SOT-23-5)	DBV0005A
23	U2	1		TPS76350QDBVRQ1	Texas Instruments	Single Output Automotive LDO, 150 mA, Fixed 5 V Output, 2.7 to 10 V Input, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
24	U3, U4	2		AMC1302QDWVRQ1	Texas Instruments	Precision Reinforced Isolated Amplifier for Current Sensing, DWV0008A (SOIC-8)	DWV0008A
25	U5	1		LM4132AQ1MFT2.5	Texas Instruments	Automotive SOT23 Precision Low Dropout Voltage Reference, DBV0005A (SOT-23-5)	DBV0005A
26	U6	1		OPA376AQDBVRQ1	Texas Instruments	Automotive Catalog Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV5), Green (RoHS & no Sb/Br)	DBV0005A
27	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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