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of Materials

TEXAS
INSTRUMENT

TIDA-00998 REV E2 Bill of Materials

	B 1	0	M-I	Down North Con-	14 f f	Be a salad an	B1B-(Pu. I
Item #	Designator	Quantity	Value	PartNumber TIDA-00998	Manufacturer	Description	PackageReference	Fitted
1	!PCB	1	47.5		Any	Printed Circuit Board	0000	Fitted
2	C2, C6	2	4.7uF	0603ZD475KAT2A	AVX	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X5R, 0603	0603	Fitted
3	C3, C4, C7, C10, C16, C17, C19, C20	8	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603	Fitted
		4	0.01uF	C0603C103J5RACTU	Kemet	CAR CERM 0.04 .: F. FO.V / F0/ YZR 0.002	0603	Fitted
4	C5	1 2		C1210C107M8PACTU		CAP, CERM, 0.01 μF, 50 V, +/- 5%, X7R, 0603		
5	C8, C9		100uF 1uF		Wurth Elektronik	CAP, CERM, 100 μF, 10 V, +/- 20%, X5R, 1210 CAP, CERM, 1 μF, 10 V, +/- 10%, X5R, 0603	1210 0603	Fitted Fitted
<u>6</u> 7	C11	2		C0603C105K8PACTU GRM219R61E225KA12D	Kemet		0805	Fitted
	C12, C13 C14, C15	2	2.2uF 0.47uF	C0603C474K8PACTU	MuRata Kemet	CAP, CERM, 2.2 μF, 25 V, +/- 10%, X5R, 0805 CAP, CERM, 0.47 μF, 10 V, +/- 10%, X5R, 0603	0603	Fitted
8 9	D2		75V	1N4448WX-TP			SOD-323	Fitted
10	D3, D7, D13	<u>1</u> 3	Red	HSMZ-A400-V30M1	Avago	Diode, Switching, 75 V, 0.25 A, SOD-323 LED, Red, SMD	3.2x2.8mm	Fitted
11	D4, D10, D16		Yellow	VAOL-S2WR4	Visual Communications Comp	LED, Yellow, SMD	3.1x2.7mm	Fitted
12	D5, D6, D8, D9, D11,	3 10	Red	VLMR334BACB-GS08	Vishay-Semiconductor	LED, Red, SMD	3x2.8mm	Fitted
12	D12, D14, D15, D17, D18	10	Red	VEIWINGS4BACB-GG08	visitay-semiconductor	LLD, Neu, Sivid	SAZ.OHIII	i meu
13	D19	1	Red	LNJ8L6C18RA	Panasonic	LED, Red, SMD	3.3x3.1mm	Fitted
14	FID4, FID5, FID6	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial	Fitted
15	H1	1		IML-0669	MuRata	Lens, Ceiling Mount, TH	D12xH8.508mm	Fitted
16	J1, J4, J5	3		OSTVN02A150	On-Shore Technology	Terminal Block, 2.54mm, 2x1, Brass, TH	Terminal Block,	Fitted
					-		2.54mm, 2-pole,	
							Brass, TH	
17	J2	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil,	Fitted
	<u> </u>		1		<u> </u>		Tin	
18	J3, J6	2		61300621121	Wurth Elektronik	Header, 2.54mm, 3x2, Gold, TH	Header, 2.54mm, 3x2,	Fitted
	,						TH	
19	J7	1		61300211121	Wurth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1,	Fitted
							тн	
20	L1	1	10uH	VLF302515MT-100M	TDK	Inductor, Shielded, Ferrite, 10 µH, 0.71 A, 0.152 ohm, SMD	IND_3x1.5x3mm	Fitted
21	L2	1	10uH	VLF504012MT-100M	TDK	Inductor, Shielded, Ferrite, 10 µH, 1.3 A, 0.19 ohm, SMD	IND 5x1.2x4mm	Fitted
22	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll		Fitted
					,	,,,,,,	0.200"W	
23	Q1, Q2, Q3, Q4	4	-20V	SI1317DL-T1-GE3	Vishay-Siliconix	MOSFET, P-CH, -20 V, -1.4 A, SOT-323	SOT-323	Fitted
24	R1, R3, R6, R7, R10,	14	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603	Fitted
	R18, R20, R21, R22, R27, R30, R31, R32, R34							
25	R4	1	3.48Meg	CRCW06033M48FKEA	Vishay-Dale	RES, 3.48 M, 1%, 0.1 W, 0603	0603	Fitted
26	R5	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603	Fitted
27	R8	1	5.49Meg	CRCW06035M49FKEA	Vishay-Dale	RES, 5.49 M, 1%, 0.1 W, 0603	0603	Fitted
28	R9	1	7.32Meg	CRCW06037M32FKEA	Vishay-Dale	RES, 7.32 M, 1%, 0.1 W, 0603	0603	Fitted
29	R11	1	499	CRCW0603499RFKEA	Vishay-Dale	RES, 499, 1%, 0.1 W, 0603	0603	Fitted
30	R12	1	4.32Meg	CRCW06034M32FKEA	Vishay-Dale	RES, 4.32 M, 1%, 0.1 W, 0603	0603	Fitted
31	R13	1	7.50Meg	CRCW06037M50FKEA	Vishay-Dale	RES, 7.50 M, 1%, 0.1 W, 0603	0603	Fitted
32	R14	1	1.18Meg	CRCW06031M18FKEA	Vishay-Dale	RES, 1.18 M, 1%, 0.1 W, 0603	0603	Fitted
33	R15, R16, R17, R23, R24	5	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603	Fitted
34	R19	1	8.06k	CRCW06038K06FKEA	Vishay-Dale	RES, 8.06 k, 1%, 0.1 W, 0603	0603	Fitted
35	R28, R29	2	200k	RC0603FR-07200KL	Yageo America	RES, 200 k, 1%, 0.1 W, 0603	0603	Fitted
36	U1	1		BQ25505RGRR	Texas Instruments	Ultra Low Power Boost Converter with Battery Management for Energy	RGR0020A	Fitted
						Harvester Applications, RGR0020A (VQFN-20)		
37	U2	1		TPS2113APWR	Texas Instruments	AUTOSWITCHING POWER MUX, PW0008A (TSSOP-8)	PW0008A	Fitted
38	U3	1		LP55231SQX/NOPB	Texas Instruments	LP55231 Programmable 9-Output LED Driver, RTW0024A (WQFN-24)	RTW0024A	Fitted
39	U4	1		LM3509SD/NOPB	Texas Instruments	High Efficiency Boost for White LED's and/or OLED Displays with Dual Current Sinks and IC Compatible Brightness Control, 10-pin LLP, Pb-Free	SDA10A	Fitted
40	U5	1		OPT3001DNPR	Texas Instruments	Ambient Light Sensor, DNP0006A (USON-6)	DNP0006A	Fitted
41	U7	1		PCA9306DCTR	Texas Instruments	Dual Bi-Directional I2C-Bus and SMBus Voltage Level-Translator, 0 to 5.5 V, -40 to 85 degC, 8-pin SM8 (DCT), Green (RoHS & no Sb/Br)	DCT0008A	Fitted
42	BT1	0		TL-4934/P	Tadiran Batteries	Battery 3.6V, TH	D32.9mm	Not Fitted
43	C1	0	1000000uF	DB-5R5D105T	Elna	CAP, Electric Double Laver, 1F, 5.5 V, +80/-20%, 30 ohm, TH	D32.9mm	Not Fitted
43	C18	0	0.1uF	06033C104JAT2A	AVX		0603	Not Fitted
45			5V		Toshiba	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	SOD-323	
45	D1	0	οv	1SS315TPH3F N/A	N/A	Diode, Schottky, 5 V, 0.03 A, SOD-323 Fiducial mark. There is nothing to buy or mount.	Fiducial	Not Fitted
	FID1, FID2, FID3		100k	CRCW0603100KFKEA	N/A Vishay-Dale			Not Fitted
47	R2	0		CRCW0603100KFKEA CRCW06031M80FKEA		RES, 100 k, 1%, 0.1 W, 0603 RES, 1.80 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603	Not Fitted
48	R25	0	1.80Meg		Vishay-Dale		0603	Not Fitted
49	R26	0	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603	Not Fitted
50	R33	0	52.3k	CRCW060352K3FKEA	Vishay-Dale	RES, 52.3 k, 1%, 0.1 W, 0603	0603	Not Fitted
51	R35	0	U	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603	Not Fitted
52	U6	0		TLV3011AIDCKR	Texas Instruments	Nanopower, 1.8V, Comparator with Voltage Reference, DCK0006A (SOT-6)	DCK0006A	Not Fitted

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