

Variant: 001  
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 TID #: 01539



TIDA-01539 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-01539	Any	Printed Circuit Board	
2	C1	1	10pF	0603ZC100KAT2A	AVX	CAP, CERM, 10 pF, 10 V, +/- 10%, X7R, 0603	0603
3	C2, C4	2	4.7uF	GRM188Z71C475KE21D	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0603	0603
4	C3, C5, C9, C10	4	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C6	1	4700pF	GCM188R71H472KA37D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
6	C7	1	4.7uF	GCM21BR71C475KA73K	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
7	C8	1	2.2uF	CGA4J3X7R1E225K125AB	TDK	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
8	C11	1	22uF	EEE-FK1V220R	Panasonic	CAP, AL, 22 uF, 35 V, +/- 20%, 0.7 ohm, AEC-Q200 Grade 2, SMD	SMT Radial C
9	D1	1	40V	1N5819HW-7-F	Diodes Inc.	Diode, Schottky, 40 V, 1 A, SOD-123	SOD-123
10	D2	1	Green	150060GS75000	Würth Elektronik	LED, Green, SMD	LED_0603
11	J1, J2	2		1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
12	J3, J4	2		SSQ-110-23-F-S	Samtec	Receptacle, 2.54mm, 10x1, Gold, TH	Receptacle, 2.54mm, 10x1, TH
13	Q1	1	150 V	FMMT495TA	Diodes Inc.	Transistor, NPN, 150 V, 1 A, AEC-Q101, SOT-23	SOT-23
14	Q2	1	100 V	NJVMJD122T4G	ON Semiconductor	Transistor, NPN, 100 V, 8 A, AEC-Q101, DPAK	DPAK
15	R1	1	10.1k	RT0603DRE0710K1L	Yageo America	RES, 10.1 k, 0.5%, 0.1 W, 0603	0603
16	R2	1	4.70k	RC0603FR-074K7L	Yageo America	RES, 4.70 k, 1%, 0.1 W, 0603	0603
17	R3	1	499	CRCW0603499RFKEA	Vishay-Dale	RES, 499, 1%, 0.1 W, 0603	0603
18	R4, R5, R6, R7	4	10.0k	RMCF0603FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
19	R8	1	470	RC0603FR-07470RL	Yageo America	RES, 470, 1%, 0.1 W, 0603	0603
20	TP1	1		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
21	TP2, TP4	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
22	TP3	1		5128	Keystone	Test Point, Multipurpose, Grey, TH	Grey Multipurpose Testpoint
23	U1	1		DAC101C081QISD/NOPB	Texas Instruments	10-Bit Micro Power Dig-to-Analog Converter, NGF0006A (WSON-6)	NGF0006A
24	U2	1		TLV316QDBVTQ1	Texas Instruments	10-MHz, Rail-to-Rail Input/Output, Low-Voltage, 1.8-V CMOS Operational Amplifier, DBV0005A (SOT-23-5)	DBV0005A
25	U3	1		TPS7B6933QDBVRQ1	Texas Instruments	High Voltage Ultra Low Iq - Low Drop Out Regulator, DBV0005A (SOT-23-5)	DBV0005A
26	U4, U5	2		OPT3001IDNPRQ1	Texas Instruments	Ambient Light Sensor (ALS), DNP0006A (USON-6)	DNP0006A
27	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
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