Texas **INSTRUMENTS**

TIDA-01588 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	1uF	GRM155R6YA105ME11D	MuRata	CAP, CERM, 1 µF, 35 V,+/- 20%, X5R, 0402	0402
2	C2	1	10uF	C1608JB0J106K080AB	TDK	CAP, CERM, 10 µF, 6.3 V,+/- 10%, JB, 0603	0603
3	C3, C12	2	3300pF	GRM033R70J332KA01D	MuRata	CAP, CERM, 3300 pF, 6.3 V,+/- 10%, X7R, 0201	0201
4	C4	1	0.1uF	C1005X7R1H104K050BE	TDK	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0402	0402
5	C5	1	22uF	C3216X5R1V226M160AC	TDK	CAP, CERM, 22 µF, 35 V,+/- 20%, X5R, 1206	1206
6	C6	1	4.7uF	GRM188R60J475KE19D	MuRata	CAP, CERM, 4.7 µF, 6.3 V,+/- 10%, X5R, 0603	0603
7	C7, C10	2	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 µF, 6.3 V,+/- 10%, X7R, 0402	0402
8	C8, C13	2	0.01uF	GRM033R71A103KA01D	MuRata	CAP, CERM, 0.01 µF, 10 V,+/- 10%, X7R, 0201	0201
9	C9	1	2200pF	GRM033R71A222KA01D	MuRata	CAP, CERM, 2200 pF, 10 V,+/- 10%, X7R, 0201	0201
10	D1	1	Green	APHHS1005CGCK	Kingbright	LED, Green, SMD	0402
11	D2	1	Red	APHHS1005SURCK	Kingbright	LED, Red, SMD	0402
12	J1	1		GRPB031VWVN-RC	Sullins Connector Solutions	Header, 50mil, 3x1, Gold, TH	Header, 3x1, 50mil, TH
13	J2, J3	2		GRPB021VWVN-RC	Sullins Connector Solutions	Header, 50mil, 2x1, Gold, TH	2x1 Header
14	J5	1		GRPB041VWVN-RC	Sullins Connector Solutions	Header, 50mil, 4x1, Gold, TH	TH, Header, 1.27 mm, 4x1, Straight
15	R1	1	2.0Meg	RC0402JR-072ML	Yageo	RES SMD 2M OHM 5% 1/16W 0402	0402
16	R2, R7, R16	3	100	RC0201JR-07100RL	Yageo America	RES, 100, 5%, 0.05 W, 0201	0201
17	R3	1	47.5k	RC0201FR-0747K5L	Yageo America	RES, 47.5 k, 1%, 0.05 W, 0201	0201
18	R4	1	619k	RC0201FR-07619KL	Yageo America	RES, 619 k, 1%, 0.05 W, 0201	0201
19	R5, R6, R15, R19, R20	5	3.30k	RC0201FR-073K3L	Yageo America	RES, 3.30 k, 1%, 0.05 W, 0201	0201
20	R8, R14	2	49.9k	RC0201FR-0749K9L	Yageo America	RES, 49.9 k, 1%, 0.05 W, 0201	0201
21	R9, R13	2	2.00k	RC0201FR-072KL	Yageo America	RES, 2.00 k, 1%, 0.05 W, 0201	0201
22	R10, R11	2	16.5k	RC0201FR-0716K5L	Yageo America	RES, 16.5 k, 1%, 0.05 W, 0201	0201
23	R12	1	10.0k	RC0201FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.05 W, 0201	0201
24	R17	1	0.02	CSR1206FK20L0	Stackpole Electronics Inc	RES, 0.02, 1%, 0.5 W, 1206	1206
25	U1	1		MSP430FR2433IRGER	Texas Instruments	MSP430FR2433 16 MHz Ultra-Low-Power Microcontroller with 16 KB FRAM, 4 KB RAM, 19 IO, 4 Timers, RGE0024H (VQFN-24)	RGE0024H
26	U2	1		TPS70933DRVR	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input Low-Dropout Regulator with Reverse Current Protection, DRV0006A (WSON-6)	DRV0006A
27	U4	1		DRV8870DDAR	Texas Instruments	3.6A Brushed DC Motor Driver (PWM Ctrl), DDA0008E (SOIC-8)	DDA0008E
28	U5	1		ESD122DMXR	Texas Instruments	2-Channel ESD Protection Diode for USB Type-C and HDMI 2.0, DMX0003A (X2SON-3)	DMX0003A
29	U6	1		TLV9061IDPWR	Texas Instruments	TLV9061DPW, DPW0005A (X2SON-5)	DPW0005A
30	U7	1		TVS3300DRVR	Texas Instruments	33V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A

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