

Bill of Materials

TI DESIGNS

TIDA-00828

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	PCB1		Printed Circuit Board	Any	TIDA-00828			
2	5	C1, C5, C12, C13, C15	0.1uF	CAP CER 0.1UF 16V 5% X7R 0402	Murata Electronics North Ame	GRM155R71C104JA88D		0402	
3	2	C2, C14	10uF	CAP, CERM, 10uF, 10V, +/-20%, X5R, 0603	TDK	C1608X5R1A106M		0603	
4	1	C3	2.2uF	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0603	Kemet	C0603C225K8PACTU		0603	
5	1	C4	22uF	CAP, CERM, 22uF, 16V, +/-10%, X5R, 0805	TDK	C2012X5R1C226K125AC		0805	
6	2	C6, C7	18pF	CAP, CERM, 18pF, 100V, +/-5%, C0G/NPO, 0603	MuRata	GRM1885C2A180JA01D		0603	
7	1	C8	2200pF	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	Kemet	C0603X222K5RACTU		0603	
8	2	C9, C11	220nF	CAP, CERM, 220nF, 10V, 10%, X7R, 0402	TDK Corporation	C1005X7R1A224K050BB		0402	
9	1	C10	0.47uF	CAP, CERM, 0.47 uF, 6.3 V, +/- 10%, X5R, 0402	MuRata	GRM155R60J474KE19D		0402	
10	2	C16, C18	0.1uF	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	MuRata	GRM155R71C104KA88D		0402	
11	2	C17, C19	62pF	CAP, CERM, 62 pF, 50 V, +/- 5%, C0G/NPO, 0402	MuRata	GRM1555C1H620JA01D		0402	
12	1	D1	5.6V	Diode, Zener, 5.6V, 500mW, SOD-123	Diodes Inc.	MMSZ5232B-7-F		SOD-123	
13	2	D2, D3	Red	LED, Red, SMD	Kingbright	ACSC02-41SURKWA-F01		6.9x10mm	
14	1	J1		Connector, Receptacle, Micro-USB Type B, SMT	Hirose Electric Co. Ltd.	ZX62R-B-5P		Connector USB Mini B	
15	1	J2		Header, 100mil, 3x1, Gold, TH	Samtec	TSW-103-07-G-S		3x1 Header	
16	1	L1	10uH	Inductor, Shielded, Ferrite, 10 uH, 0.4 A, 1.38 ohm, SMD	TDK	VLS201610ET-100M		2.0x0.95x1.6mm	
17	1	R1	1.5K	RES 1.5K OHM 1/16W 5% 0402 SMD	Vishay Dale	CRCW04021K50JNED		0402	
18	2	R2, R3	10.0	RES, 10.0, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040210R0FKED		0402	
19	1	R4	1M	RES, 1M ohm, 5%, 0.063W, 0402	Yageo	RC0402JR-071ML		0402	
20	1	R5	33	RES, 33 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060333R0JNEA		0603	
21	1	R6	33k	RES, 33k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040233K0JNED		0402	
22	2	R7, R8	220	RES, 220, 5%, 0.0625 W, Resistor Array - 8x1	Panasonic	EXB-2HV221JV		Resistor Array - 8x1	
23	2	R9, R11	53.6k	RES, 53.6 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040253K6FKED		0402	
24	3	R10, R12, R13	0	RES, 0, 5%, 0.063 W, 0402	Yageo America	RC0402JR-070RL		0402	
25	1	U1		Micropower, 150mA Low-Dropout CMOS Voltage Regulator, 5-	Texas Instruments	LP5951MG-3.3/NOPB		MAA05A	
26	1	U2		Low-Capacitance + / - 15 kV ESD-Protection Array for High-	Texas Instruments	TPD2E001DRLR		DRL0005A	
27	1	U3		25 MHz Mixed Signal Microcontroller with 8 KB Flash, 4096 B	Texas Instruments	MSP430F5500IRGZR		RGZ0048A	
28	2	U4, U5		1.8-3.3V Inductive Switch, DSG0008A	Texas Instruments	LDC0851DSGR		DSG0008A	
29	1	Y1		Crystal, 24.000MHz, 18pF, SMD	Abracon Corporation	ABM8-24.000MHZ-B2-T		3.2x0.8x2.5mm	

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