

Bill of Materials

TI DESIGNS

TIDA-00297

Item	Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number
1	4	C1, C2, C9, C10	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0805	AVX Corporation	08053C104KAT2A	Digi-Key	478-3755-1-ND
2	1	C3	CAP, CERM, 1000pF, 100V, +/-10%, X7R, 0805	AVX Corporation	08051C102KAT2A	Digi-Key	478-1352-1-ND
3	2	C4, C12	CAP, CERM, 2.2uF, 16V, +/-10%, X7R, 0805	Kemet	C0805C225K4RACTU	Digi-Key	399-3523-1-ND
4	3	C5, C25, C26	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0805	Kemet	C0805C105K4RACTU	Digi-Key	399-1284-1-ND
5	1	C6	CAP, CERM, 0.01uF, 50V, +/-5%, C0G/NP0, 0805	Murata Electronics North America	GRM2195C1H103JA01D	Digi-Key	490-1642-1-ND
6	2	C7, C8	CAP, CERM, 4.7uF, 25V, +/-10%, X6S, 0805	Murata Electronics North America	GRM21BC81E475KA12L	Digi-Key	490-6467-1-ND
7	3	C11, C22, C23	CAP CER 4.7UF 25V 10% X5R 0805	Samsung Electro-Mechanics America, Inc	CL21A475KAQNNNE	Digi-Key	1276-1244-2-ND
8	1	C13	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0805	TDK Corporation	C2012X7R1H103K	Digi-Key	445-1348-1-ND
9	6	C14, C16, C17, C19, C20, C21	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0805	Kemet	C0805C104K3RACTU	Digi-Key	399-1168-1-ND
10	2	C15, C18	CAP ALUM 100UF 25V 20% RADIAL	Nichicon	UVR1E101MED1TD	Digi-Key	UVR1E101MED1TD-ND
11	1	C24	CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805	Murata Electronics North America	GRM21BR61A106KE19L	Digi-Key	490-1709-1-ND
12	1	D1	LED GREEN CLEAR THIN 0805 SMD	Lite-On Inc	LTST-C171GKT	Digi-key	160-1423-6-ND
13	1	J1	Header, TH, 100mil, 4x1, Gold plated, 230 mil above insulator	Samtec Inc	TSW-104-07-G-S	Digi-Key	SAM1029-04-ND
14	2	J2, J3	TERMINAL BLOCK 3.5MM 2POS PCB	On Shore Technology Inc	ED555/2DS	Digi-Key	ED1514-ND
15	13	J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J15, J16, J17	Header, TH, 100mil, 1pos, Gold plated, 230 mil above insulator	Samtec Inc	TSW-101-07-G-S	Digi-Key	SAM1029-01-ND
16	3	J14, J18, J19	Header, TH, 100mil, 3x1, Gold plated, 230 mil above insulator	Samtec Inc	TSW-103-07-G-S	Digi-Key	SAM1029-03-ND
17	2	L1, L2	Inductor, Shielded Drum Core, Ferrite, 22uH, 0.9A, 0.095 ohm, SMD	Würth Electronics Inc	744053220	Digi-Key	732-1047-1-ND
18	2	R1, R10	RES, 47k ohm, 5%, 0.125W, 0805	Vishay Dale	CRCW080547K0JNEA	Digi-Key	541-47KACT-ND
19	1	R2	RES, 0 ohm, 5%, 0.125W, 0805	Vishay Dale	CRCW08050000Z0EA	Digi-Key	541-0.0ACT-ND
20	1	R3	RES, 390 ohm, 5%, 0.125W, 0805	Vishay Dale	CRCW0805390RJNEA	Digi-Key	541-390ACT-ND
21	3	R4, R5, R7	RES, 10k ohm, 5%, 0.125W, 0805	Vishay Dale	CRCW080510K0JNEA	Digi-Key	541-10KACT-ND
22	1	R6	RES, 39 ohm, 5%, 0.125W, 0805	Vishay Dale	CRCW080539R0JNEA	Digi-Key	541-39ACT-ND
23	2	R8, R9	RES, 4.7k ohm, 5%, 0.125W, 0805	Vishay / Dale	CRCW080547K0JNEA	Mouser	71-CRCW0805J-4.7K-E3
24	1	RP1	Potentiometer, 3/8 Cermet, SingleTurn, Flat	Bourns Inc.	3352T-1-503LF	Digi-Key	3352T-503LF-ND
25	2	S1, S2	Tactile switches 3.9x2.9x2.0mm 160gf	ALPS	SKRKAEE010	Mouser	688-SKRKAE
26	1	U1	IC MCU 16BIT 16KB FLASH 28TSSOP	Texas Instruments	MSP430G2553IPW28R	Digi-key	296-28431-1-ND
27	1	U2	IC REG LDO 3.3V 0.15A SOT23-5	Texas Instruments	LP2985-33DBVR	Digi-key	296-18476-1-ND
28	1	U3	IC MOTOR DRIVER PAR 16HTSSOP	Texas Instruments	DRV8848PWP	Digi-key	296-38514-5-ND
29	1	U4	IC MOTOR DRIVER PAR 28HTSSOP	Texas Instruments	DRV8812PWPR	Digi-key	296-29723-1-ND
30	1	U5	IC MOTOR DRIVER PWM 24HTSSOP	Texas Instruments	DRV10983PWPR	Digi-key	296-38448-1-ND

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