

# Bill of Materials

TI DESIGNS

TIDA-00480

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint
1	1	!PCB		Printed Circuit Board	Any	TIDA-00480	
2	1	BT1		2x AA Battery Holder, Through-hole mount	Keystone	2462	TH, 2x AA Battery Holder
3	3	C1, C2, C8	10uF	CAP, CERM, 10 $\mu$ F, 6.3 V, +/- 20%, X5R, 0603	MuRata	GRM188R60J106ME47D	0603
4	6	C3, C4, C5, C6, C7, C9	0.1uF	CAP, CERM, 0.1 $\mu$ F, 10 V, +/- 10%, X5R, 0402	MuRata	GRM155R61A104KA01D	0402
5	1	C10	1000pF	CAP, CERM, 1000 pF, 6.3 V, +/- 10%, X5R, 0402	MuRata	GRM155R60J102KA01D	0402
6	3	D0, D1, D2	Red	LED, Red, TH	Avago	HDSP-H103	12.573x17.02mm
7	4	H1, H2, H3, H4		MACHINE SCREW PAN PHILLIPS 4-40	B&F Fastener Supply	PMSSS 440 0025 PH	
8	4	H5, H6, H7, H8		Standoff, Hex, 1"L #4-40 Aluminum	Keystone	2205	1" Aluminum Hex Standoff
9	1	J1		Receptacle, 50mil, 6x1, Gold, R/A, TH	Mill-Max	851-43-006-20-001000	Receptacle, 6x1, 50mil pitch, R/A
10	1	L1	10uH	Inductor, Drum Core, Ferrite, 10 $\mu$ H, 0.75 A, 0.52 ohm, SMD	Coilcraft	DO3314-103MLB	3.3x1.4x3.3mm
11	21	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21	232	RES, 232, 1%, 0.063 W, 0402	Vishay-Dale	CRCW0402232RFKED	0402
12	1	R22	47k	RES, 47 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW040247K0JNED	0402
13	2	R23, R24	1.0k	RES, 1.0 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04021K00JNED	0402
14	1	S1		Switch, SPDT, Slide, On-On, 2 Pos, TH	E-Switch	500SSP1S2M2QEA	12.85x6.6mm
15	1	U1		Low-Input Voltage Synchronous-Boost Converter With Low Quiescent Current, DBV0005A	Texas Instruments	TPS61097A-33DBVR	DBV0005A
16	1	U2		Automotive Mixed-Signal Microcontrollers, PW0020A	Texas Instruments	MSP430G2553IPW0RQ1	PW0020A
17	2	U3, U4		Automotive Digital-Latch Hall Effect Sensor, DBZ0003A	Texas Instruments	DRV5013ADQDBZRQ1	DBZ0003A
18	3	U5, U6, U7		CMOS BCD-to-7-Segment LED Latch / Decoder / Driver, 3 to 18 V, -55 to 125 degC, 16-pin SOP (PW16), Green (RoHS & no Sb/Br)	Texas Instruments	CD4511BPWR	PW0016A
19	1	Y1		Crystal, 32.768kHz, 12.5pF, SMD	NDK	NX3215SA-32.768K-STD-MUS-2	2-SMD
20	0	FID1, FID2, FID3, FID4, FID5, FID6		Fiducial mark. There is nothing to buy or mount.	N/A	N/A	Fiducial
21	1	N/A		Knob	Onkyo	28326914	
22	1	N/A		66-Pole Ring Magnet, 57.5mm OD	Dexter Magnetic Technologies	11140012	

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