

Variant: 001  
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 TID #: TIDA-00463



**TIDA-00463 REV E1 Bill of Materials**

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		TIDA-00463	Any	Printed Circuit Board	
2	C1, C2, C3, C4, C5, C7, C19	7	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
3	C6	1	0.01uF	GRM188R71C103KA01D	MuRata	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0603	0603
4	C8, C9	2	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
5	C10, C11, C12	3	0.01uF	C1608C0G1E103J	TDK	CAP, CERM, 0.01 µF, 25 V, +/- 5%, C0G/NP0, 0603	0603
6	C13, C14, C15, C16, C17, C18	6	1000pF	C0603C102J5GAC	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
7	C20, C21, C22, C23	4	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 µF, 6.3 V, +/- 10%, X7R, 0402	0402
8	D1	1	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
9	J1, J2	2		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
10	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
11	R1, R2, R3, R4, R17	5	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
12	R5, R6	2	20.0	RP73PF2A20RBTDF	TE Connectivity	RES, 20.0, 0.1%, 0.25 W, 0805	0805
13	R7, R8, R9, R10, R11, R12, R27	7	470	CRCW0402470RJNED	Vishay-Dale	RES, 470, 5%, 0.063 W, 0402	0402
14	R13, R14, R15, R16, R26	5	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
15	R18, R20, R22, R23	4	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
16	U1, U2	2		DRV425RTJR	Texas Instruments	Fluxgate Magnetic Field Sensor, RTJ0020G	RTJ0020G
17	U3	1		TPS71745DSE	Texas Instruments	Single Output High PSRR LDO, 150 mA, Fixed 4.5 V Output, 2.5 to 6.5 V Input, with Low IQ, 6-pin WSON (DSE), -40 to 125 degC, Green (RoHS & no Sb/Br)	DSE0006A
18	U4	1		ADS1248IPWR	Texas Instruments	24-Bit Analog-to-Digital Converters for Temperature Sensors, PW0028A	PW0028A
19	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
20	R19, R21, R24, R25	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402

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