

TIDA-01472 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC1	1		TIDA-01472	Any	Printed Circuit Board	
C1, C17, C33, C49	4	10pF	C0603C100J5GACTU	Kemet	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C2, C4, C5, C18, C34, C36, C37, C50	8	1uF	C0603C105Z9VACTU	Kemet	CAP, CERM, 1 uF, 6.3 V, +80/-20%, Y5V, 0603	0603
C3, C9, C10, C11, C12, C21, C27, C31, C35, C41, C42, C43, C44, C53, C59	15	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0603	0603
C6, C7, C30, C38, C39	5	10uF	293D106X9016B2TE3	Vishay-Sprague	CAP, TA, 10 uF, 16 V, +/- 10%, 2 ohm, SMD	3528-21
C8, C15, C40, C47	4	470pF	08055A471FAT2A	AVX	CAP, CERM, 470 pF, 50 V, +/- 1%, C0G/NP0, 0805	0805
C13, C45	2	1500pF	B37947K9152J60	TDK	CAP, CERM, 1500 pF, 16 V, +/- 5%, C0G/NP0, 0805	0805
C14, C46	2	22pF	C0603C220J5GACTU	Kemet	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C16, C20, C48, C52	4	10uF	C0805C106K8PACTU	Kemet	CAP, CERM, 10 uF, 10 V, +/- 10%, X5R, 0805	0805
C19, C23, C51, C55	4	2700pF	0805C1272JAT2A	AVX	CAP, CERM, 2700 pF, 100 V, +/- 5%, X7R, 0805	0805
C22, C54	2	5600pF	0805C562KAT2A	AVX	CAP, CERM, 5600 pF, 50 V, +/- 10%, X7R, 0805	0805
C24, C25, C56, C57	4	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	0603
C26, C58	2	4.7uF	GRM155R61A475M	MuRata	CAP, CERM, 4.7 uF, 10 V, +/- 20%, X5R, 0402	0402
C28, C29, C32, C60, C61, C62	6	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X5R, 0402	0402
D1, D2, D7, D8	4	3.813V	PTZTE253.6B	Rohm	Diode, Zener, 3.813 V, 1 W, SMA	SMA
D3, D4, D5, D9, D10, D11	6	70V	DESD1P0RFW-7	Diodes Inc.	Diode, TVS, Uni, 70 V, SOT-323	SOT-323
D6, D12	2	Green	LG M67K-G1J2-24-Z	OSRAM	LED, Green, SMD	2x1.4mm
H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
J1, J3	2		ED120/3DS	On-Shore Technology	Terminal Block, 5.08 mm, 3x1, Brass, TH	3x1 5.08 mm Terminal Block
J2	1		61301021121	Würth Elektronik	Header, 2.54 mm, 5x2, Gold, TH	Header, 2.54mm, 5x2, TH
L1, L2	2	120 ohm	74279202	Würth Elektronik	Ferrite Bead, 120 ohm @ 100 MHz, 0.5 A, 0805	0805
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
Q1, Q2	2	30V	CSD17571Q2	Texas Instruments	MOSFET, N-CH, 30 V, 22 A, DQK0006C (WSON-6)	DQK0006C
R1, R6, R11, R12, R23, R36, R41, R46, R47, R58	10	150k	RC0603FR-07150KL	Yageo America	RES, 150 k, 1%, 0.1 W, 0603	0603
R2, R3, R4, R5, R37, R38, R39, R40	8	560k	RC1206FR-07560KL	Yageo America	RES, 560 k, 1%, 0.25 W, 1206	1206
R7, R9, R42, R44	4	68	ERJ-6GEYJ680V	Panasonic	RES, 68, 5%, 0.125 W, 0805	0805
R8, R43	2	137k	CRCW0603137KFKEA	Vishay-Dale	RES, 137 k, 1%, 0.1 W, 0603	0603
R10, R45	2	13.0k	RC0603FR-0713KL	Yageo America	RES, 13.0 k, 1%, 0.1 W, 0603	0603
R13, R15, R48, R50	4	0.1	ERJ-3RSFR10V	Panasonic	RES, 0.1, 1%, 0.1 W, 0603	0603
R14, R27, R30, R49, R62, R65	6	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R18, R21, R53, R56	4	15.0k	RC0603FR-0715KL	Yageo America	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R19, R22, R54, R57	4	360	CRCW0805360RJNEA	Vishay-Dale	RES, 360, 5%, 0.125 W, 0805	0805
R20, R55	2	0.002	CSS2H-2512K-2L00FCT-ND	Bourns	RES, 0.002, 1%, 2 W, 2512	2512
R24, R31, R59, R66	4	300	CRCW0603300RJNEA	Vishay-Dale	RES, 300, 5%, 0.1 W, 0603	0603
R26, R61	2	1.00k	RT0603BRD071KL	Yageo America	RES, 1.00 k, 0.1%, 0.1 W, 0603	0603
R28, R29, R63, R64	4	10.0k	RT0603BRD0710KL	Yageo America	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
T1, T2, T3, T4	4		CXS70-14-C	Panduit	Terminal 70A Lug	LUG, 32.3x14.5x11.7
U1, U4, U8, U11	4		TLV316IDBVR	Texas Instruments	10-MHz, Rail-to-Rail Input/Output, Low-Voltage, 1.8-V CMOS Operational Amplifier, DBV0005A (SOT-5)	DBV0005A
U2, U9	2		ISOW7842DWR	Texas Instruments	ISOW7841DW, DW0016B (SOIC-16)	DW0016B
U3, U10	2		ADS7250IRTER	Texas Instruments	Dual, 750-kSPS, 12-Bit, Simultaneous-Sampling, Analog-to-Digital Converter, RTE0016D (WQFN-16)	RTE0016D
U5, U12	2		TPS60241DGKR	Texas Instruments	5 V, Boost Charge Pump, 25 mA, 2.7 to 5.5 V Input with 2-Cell Alkaline / NiMH Input, -40 to 85 degC, 8-pin SOP (DGK8), Green (RoHS & no Sb/Br)	DGK0008A
U6, U13	2		TLV431ACDBZR	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U7, U14	2		SN74LVC1G17DCKR	Texas Instruments	SINGLE SCHMITT-TRIGGER BUFFER, DCK0005A (SOT-SC70-5)	DCK0005A
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R16, R17, R25, R32, R33, R34, R35, R51, R52, R60	0	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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