

TIDA-01214_DAISS REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB	1		TIDA-01214_DAISS	Any	Printed Circuit Board	
C1, C2	2	1000pF	202R18W102KV4E	Johanson Dielectrics Inc	CAP, CERM, 1000pF, 2KV 10% X7R 1206	1206
C3, C4, C5, C6, C7, C8, C10, C12, C14, C17, C20, C22, C26, C27, C28, C29, C45, C56	18	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	0603
C11, C24	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C13	1	0.22uF	C0603C224J3RAC7867	Kemet	CAP, CERM, 0.22 uF, 25 V, +/- 5%, X7R, 0603	0603
C15, C43	2	1uF	EMK107B7105KA-T	Taiyo Yuden	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603
C16	1	15pF	GRM1885C1H150JA01D	MuRata	CAP, CERM, 15 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C18, C41, C42, C46, C48, C49, C50, C52, C54, C58, C59, C60, C66, C67	14	10uF	T491B106K016AT	Vishay-Sprague	CAP, TA, 10 uF, 16 V, +/- 10%, 2 ohm, SMD	3528-21
C19, C23, C30	3	10uF	CL21B106KOQNNNE	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 16 V, +/- 10%, X7R, 0805	0805
C21	1	47uF	GRM32ER70J476KE20L	MuRata	CAP, CERM, 47 uF, 6.3 V, +/- 10%, X7R, 1210	1210
C25	1	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	0805
C31	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	0603
C32	1	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
C33, C55, C71	3	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C35, C36, C37, C38, C39, C40, C44, C47, C51, C53, C57, C61, C62, C63, C64, C65	16	0.027uF	GRM3195C1H273JA01D	MuRata	CAP, CERM, 0.027uF, 50V, +/-5%, C0G/NP0, 1206	1206
C68, C69	2	10uF	GRM31CR61H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, 1206	1206
C70, C74	2	1uF	C0805C105K8RACTU	Kemet	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0805	0805
C72	1	0.1uF	C0603C104K8RACTU	Kemet	CAP, CERM, 0.1uF, 10V, +/-10%, X7R, 0603	0603
C73	1	47uF	293D476X96R3B2TE3	Vishay-Sprague	CAP, TA, 47 uF, 6.3 V, +/- 10%, 1.9 ohm, SMD	3528-21
D1, D2, D3, D4, D5, D6, D8, D10, D12, D14, D16, D18, D21, D22, D23, D24	16	19	CDSOD323-T12C	Bourns Inc.	Diode, TVS, ARRAY, 19V, SOD323	SOD-323
D7	1	SMBJ18CA	SMBJ18CA	Littelfuse Inc	TVS 18 VOLT 600 WATT BI-DIR SMB	SMB
D9, D20	2	Green	LG L29K-G2J1-24-Z	OSRAM	LED SmartLED Green 570NM	0603
D11	1	5.9V	PTZTE255.6B	Rohm Semiconductor	DIODE ZENER 5.9V 1W PMDS	DO-214AC, SMA
D13, D15	2	3.9V	PTZTE253.9B	Rohm Semiconductor	DIODE ZENER 4.1V 1W PMDS	DO-214AC, SMA
D17	1	Green	SML-D12M8WT86	ROHM Semiconductor	LED GREEN DIFFUSED 0603 SMD	0603
FB3, FB4	2	1000 OHM	MMZ1608B102C	TDK Corporation	FERRITE CHIP 1000 OHM 300MA 0603	0603
FID1, FID2, FID3, FID4, FID5, FID6	6					
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J12, J13, J14, J15, J16, J17, J18	17		OSTVN02A150	On Shore Technology Inc	Terminal Block, 4x1, 2.54mm, TH	TERM_BLK, 2pos, 2.54mm
J11	1		1725711	Phoenix Contact	Terminal Block, 8x1, 2.54 mm, TH	8POS Terminal Block
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

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
Q1, Q2	2	30V	CSD17571Q2	TEXAS INSTRUMENTS	MOSFET, N-CH, 30V, 22A, SON 2X2 MM	DQK
R1, R2, R3, R4, R19, R29, R36, R48, R57, R69, R80, R94, R111, R112, R113, R114	16	100E	MMA02040C1000FB300	Vishay Beyschlag	RES 100 OHM .4W 1% 0204 MELF	MELF 0204
R10, R12, R14, R16, R18, R31, R38, R49, R61, R73, R78, R83, R97, R98, R99, R100	16	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R21, R23, R24, R26, R33, R44, R46, R50, R63, R66, R70, R74, R85, R87, R89, R91	16	1.6k	CRCW06031K60JNEA	Vishay-Dale	RES, 1.6k ohm, 5%, 0.1W, 0603	0603
R22, R25, R27, R28, R34, R39, R43, R51, R54, R55, R56, R62, R64, R65, R75, R84, R86, R88, R90, R92, R124, R127, R131, R134, R140, R143, R156, R159	28	0	RC0603JR-070RL	Yageo America	RES, 0 ohm,5%, 0.1W, 0603	0603
R35, R45, R67, R126, R142, R154, R155, R157, R162	9	47.0k	CRCW060347K0FKEA	Vishay Dale	RES, 47.0k ohm, 1%, 0.1W, 0603	0603
R47, R101, R153	3	390	CRCW0603390RFKEA	Vishay-Dale	RES, 390, 1%, 0.1 W, 0603	0603
R58, R93, R145, R152, R164, R166	6	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R115, R116, R117, R118, R119, R120, R121, R129, R130, R132, R141, R146, R147, R148, R149, R150, R151	17	0	RC1206JR-070RL	Yageo America	RES, 0 ohm,5%, 0.25W, 1206	1206
R122, R125, R136, R139	4	357	CRCW0603357RFKEA	Vishay-Dale	RES, 357 ohm, 1%, 0.1W, 0603	0603
R133	1	51.1k	CRCW060351K1FKEA	Vishay-Dale	RES, 51.1 k, 1%, 0.1 W, 0603	0603
R137	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
R138	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
R158, R160, R161, R163	4	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R168	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP16, TP18, TP19, TP22, TP23, TP24	20	STD	STD	STD	Test Point 40mil pad 20mil drill	
TP15, TP17, TP20, TP21, TP25, TP26, TP27, TP28, TP29, TP30	10	5001	5001	Keystone	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch
TP31	1				Pad, SMT 0.23 mm	
U1, U3	2		ADS8688IDBT	TI	IC ADC 16BIT 500KSPS 8CH 38TSSOP	TSSOP-38

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U2	1		REG71055DDCR	Texas Instruments	5.5 V, Buck / Boost Charge Pump, 60 mA, 3 to 5.5 V Input with 2-Cell Alkaline / Nixx Input, -40 to 85 degC, 6-pin SOT23 (DDC6), Green (RoHS & no Sb/Br)	DDC0006A
U4	1		TPS79101DBVR	Texas Instruments	Single Output High PSRR LDO, 100 mA, Adjustable 1.2 to 5.5 V Output, 2.7 to 5.5 V Input, 6-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0006A
U5	1		TPS3836K33DBVR	Texas Instruments	NanoPower Supervisory Circuits, DBV0005A (SOT-5)	DBV0005A
U6	1		ISOW7841DWE	Texas Instruments	ISOW7841DWE, DW0016B (SOIC-16)	DW0016B
U7	1		REF6041IDGKR	Texas Instruments	High-Precision Voltage Reference with Integrated High-Bandwidth Buffer, DGK0008A (VSSOP-8)	DGK0008A
C9, C34	0	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
R5, R6, R7, R8, R9, R11, R13, R15, R17, R20, R30, R32, R37, R42, R52, R53, R59, R60, R71, R72, R81, R82, R95, R96, R102, R103, R104, R105, R107, R108, R109, R110	0	22	CRCW060322R0FKEA	Vishay-Dale	RES, 22 ohm, 1%, 0.1W, 0603	0603
R40, R68, R76, R77, R128	0	47.0k	CRCW060347K0FKEA	Vishay Dale	RES, 47.0k ohm, 1%, 0.1W, 0603	0603
R41, R106	0	300	CRCW0603300RJNEA	Vishay-Dale	RES, 300 ohm, 5%, 0.1W, 0603	0603
R79, R123, R135	0	0	RC0603JR-070RL	Yageo America	RES, 0 ohm,5%, 0.1W, 0603	0603
R144	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R165	0	4.7k	RC0603JR-074K7L	Yageo America	RES, 4.7 k, 5%, 0.1 W, 0603	0603
R167	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603