

TIDA-01576_DUAL_SDO REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2	2	1000pF	202R18W102KV4E	Johanson Dielectrics Inc	CAP, CERM, 1000pF, 2KV 10% X7R 1206	1206
C11, C19, C21, C25, C31, C32, C69	7	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C13, C33	2	4.7uF	C2012X5R1H475K125AB	TDK	CAP, CERM, 4.7uF, 50V, +/-10%, X5R, 0805	0805
C15, C43	2	1uF	EMK107B7105KA-T	Taiyo Yuden	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603
C16, C18, C30, C41, C42, C46, C48, C49, C50, C52, C54, C58, C59, C60	14	10uF	T491B106K016AT	Vishay-Sprague	CAP, TA, 10 µF, 16 V, +/- 10%, 2 ohm, SMD	3528-21
C23, C24	2	1uF	08055C105KAT2A	AVX	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
C55	1	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01uF, 50V, +/-5%, X7R, 0603	0603
C66, C68	2	1uF	C0805C105K8RACTU	Kemet	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0805	0805
C67	1	0.1uF	C0603C104K8RACTU	Kemet	CAP, CERM, 0.1uF, 10V, +/-10%, X7R, 0603	0603
C70	1	10uF	EMK107BBJ106MA-T	Taiyo Yuden	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0603	0603
C71, C72	2	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
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, D13, D19, D20	4	Green	LP L296-J2L2-25-Z	OSRAM	LED SmartLED Green 570NM	0603
D11, D17	2	5.6V	SMAZ5V6-13-F	Diodes Incorporated	DIODE ZENER 5.6V 1W SMA	DO-214AC, SMA
FB1, FB2, FB3, FB4	4	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
Q1, Q2	2	30V	CSD17571Q2	TEXAS INSTRUMENTS	MOSFET, N-CH, 30V, 22A, SON 2X2 MM	DQK

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R1, R2, R3, R4, R19, R29, R36, R48, R57, R69, R80, R94, R111, R112, R113, R114	16	22.1 E	MMA02040C2219FB300	Vishay Beyschlag	RES 22.1 OHM 1% 0.4W MELF 0204	MELF 0204
R10, R12, R14, R16, R18, R31, R38, R49, R61, R73, R78, R83, R97, R98, R99, R100	16	1.00k	RT0603FRE071KL	Yageo America	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, R56, R62, R64, R65, R75, R84, R86, R88, R90, R92, R124, R127, R131, R134, R138, R140, R143, R152, R158, R159	29	0	RC0603JR-070RL	Yageo America	RES, 0 ohm,5%, 0.1W, 0603	0603
R35, R45, R68, R76, R126, R142, R154, R155, R156, R157	10	47.0k	RT0603FRE0747KL	Yageo America	RES, 47.0k ohm, 1%, 0.1W, 0603	0603
R41, R47, R101, R106	4	300	CRCW0603300RJNEA	Vishay-Dale	RES, 300 ohm, 5%, 0.1W, 0603	0603
R58, R93	2	560	RC0603JR-07560RL	Yageo America	RES, 560, 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
R137, R145	2	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603

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R160	1	1.50k	CRCW06031K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, 0603	0603
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24	24	STD	STD	STD	Test Point 40mil pad 20mil drill	
TP25	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
U1, U3	2		ADS8688AIDBT	TI	16 bit 400KSPS 8 Channel SAR ADC	TSSOP-38
U2	1		TPS70950DBVR	Texas Instruments	IC REG LDO 5V 0.15A SOT23-5	DBV0005A
U4	1		TPS70933DBVT	Texas Instruments	IC REG LDO 3.3V 0.15A SOT23-5	DBV0005A
U5	1		REF5040AIDGKT	Texas Instruments	Low Noise, Very Low Drift, Precision Voltage Reference, -40 to 125 degC, 8-pin MSOP (DGK), Green (RoHS & no Sb/Br)	DGK0008A
U6	1		LM35DM/NOPB	Texas Instruments	Precision Centigrade Temperature Sensor, 8-pin Narrow SOIC, Pb-Free	M08A
C3, C4, C5, C6, C7, C8, C10, C12, C14, C17, C20, C22, C26, C27, C28, C29, C45, C56	0	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	0603
C9, C34	0	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
C35, C36, C37, C38, C39, C40, C44, C47, C51, C53, C57, C61, C62, C63, C64, C65	0	0.027uF	GRM3195C1H273JA01D	MuRata	CAP, CERM, 0.027uF, 50V, +/-5%, C0G/NP0, 1206	1206
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	RC0603FR-0722RL	Yageo America	RES, 22 ohm, 1%, 0.1W, 0603	0603
R40, R67, R77, R128, R133	0	47.0k	RT0603FRE0747KL	Yageo America	RES, 47.0k ohm, 1%, 0.1W, 0603	0603

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R55, R79, R123, R135, R153, R161	0	0	RC0603JR-070RL	Yageo America	RES, 0 ohm,5%, 0.1W, 0603	0603
R144	0	0	RC0805JR-070RL	Yageo America	RES, 0 ohm,5%, 0.125W, 0805	0805