

Bill of Materials

TI DESIGNS

TIDA-00307

Item	Qty	Reference	Fitted	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint
2	2	C1, C2	Fitted	CAP, CERM, 1000pF, 2KV 10% X7R 1206	Johanson Dielectrics Inc	202R18W102KV4E	603
3	18	C3, C4, C5, C6, C7, C8, C10, C12, C14, C17, C20, C22, C26, C27, C28, C29, C45, C56	Fitted	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	AVX	06031C103JAT2A	603
4	0	C9, C34	Not Fitted	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	AVX	06033C104JAT2A	603
5	6	C11, C19, C21, C25, C31, C32	Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	Kemet	C0603C104K5RACTU	0805_HV
6	2	C13, C33	Fitted	CAP, CERM, 4.7uF, 50V, +/-10%, X5R, 0805	TDK	C2012X5R1H475K125AB	603
7	2	C15, C43	Fitted	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	Taiyo Yuden	EMK107B7105KA-T	3528-21
8	14	C16, C18, C30, C41, C42, C46, C48, C49, C50, C52, C54, C58, C59, C60	Fitted	CAP, TA, 10 uF, 16 V, +/- 10%, 2 ohm, SMD	Vishay-Sprague	T491B106K016AT	805
9	2	C23, C24	Fitted	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	AVX	08055C105KAT2A	1206
10	16	C35, C36, C37, C38, C39, C40, C44, C47, C51, C53, C57, C61, C62, C63, C64, C65	Fitted	CAP, CERM, 0.027uF, 50V, +/-5%, C0G/NP0, 1206	MuRata	GRM3195C1H273JA01D	603
11	1	C55	Fitted	CAP, CERM, 0.01uF, 50V, +/-5%, X7R, 0603	Kemet	C0603C103J5RACTU	sod-323
12	16	D1, D2, D3, D4, D5, D6, D8, D10, D12, D14, D16, D18, D21, D22, D23, D24	Fitted	Diode, TVS, ARRAY, 19V, SOD323	Bourns Inc.	CDSOD323-T12C	DIO_SMB_BIAAAA
13	1	D7	Fitted	TVS 18 VOLT 600 WATT BI-DIR SMB	Littelfuse Inc	SMBJ18CA	LED0603AA
14	0	D9, D20	Not Fitted	LED SmartLED Green 570NM	OSRAM	LG L29K-G2J1-24-Z	powerDI123
15	2	D11, D17	Fitted	DIODE ZENER 5.9V 1W PMDS	Rohm Semiconductor	PTZTE255.6B	LED0603AA
16	2	D13, D19	Fitted	LED SmartLED Green 570NM	OSRAM	LG L29K-G2J1-24-Z	powerDI123
17	1	D15	Fitted	Diode, Schottky, 200V, 1A, PowerDI123	Diodes Inc.	DFLS1200-7	FB0603

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18	4	FB1, FB2, FB3, FB4	Fitted	FERRITE CHIP 1000 OHM 300MA 0603	TDK Corporation	MMZ1608B102C	FID_TOP_40_80BA
20	4	H1, H2, H3, H4	Fitted	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	CN2_MTB_P100_PD 80_D1.1_S5.54X6.5_STACK
21	17	J10, J12, J13, J14, J15, J16, J17,	Fitted	Terminal Block, 4x1, 2.54mm, TH	On Shore Technology Inc	OSTVN02A150	CONN_1725711
22	1	J11	Fitted	Terminal Block, 8x1, 2.54 mm, TH	Phoenix Contact	1725711	Label_650x200
24	0	Q1, Q2	Not Fitted	MOSFET, N-CH, 30V, 22A, SON 2X2 MM	Texas Instruments	CSD17571Q2	1206
25	16	R48, R57, R69, R80, R94, R111,	Fitted	RES 100 OHM .4W 1% 0204 MELF	Vishay Beyschlag	MMA02040C1000FB300	603
26	0	R15, R17, R20, R30, R32, R37,	Not Fitted	RES, 22 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060322R0FKEA	603
27	16	R38, R49, R61, R73, R78, R83,	Fitted	RES, 1.00k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K00FKEA	603
28	16	R46, R50, R63, R66, R70, R74,	Fitted	RES, 1.6k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06031K60JNEA	603
29	27	R43, R51, R54, R55, R56, R62,	Fitted	RES, 0 ohm,5%, 0.1W, 0603	Yageo America	RC0603JR-070RL	603
30	9	R155, R156, R157	Fitted	RES, 47.0k ohm, 1%, 0.1W, 0603	Vishay Dale	CRCW060347K0FKEA	603
31	0	R40, R68, R76, R77, R128, R133	Not Fitted	RES, 47.0k ohm, 1%, 0.1W, 0603	Vishay Dale	CRCW060347K0FKEA	603
32	0	R41, R47, R101, R106	Not Fitted	RES, 300 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603300RJNEA	603
33	2	R58, R93	Fitted	RES, 560 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603560RJNEA	603
34	0	R79, R123, R135	Not Fitted	RES, 0 ohm,5%, 0.1W, 0603	Yageo America	RC0603JR-070RL	1206
35	17	R120, R121, R129, R130, R132,	Fitted	RES, 0 ohm,5%, 0.25W, 1206	Yageo America	RC1206JR-070RL	603
36	4	R122, R125, R136, R139	Fitted	RES, 357 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603357RFKEA	603
37	2	R137, R145	Fitted	RES, 10.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310K0FKEA	805
38	0	R144	Not Fitted	RES, 0 ohm,5%, 0.125W, 0805	Yageo America	RC0805JR-070RL	0
39	24	TP7, TP8, TP9, TP10, TP11,	Fitted	Test Point 40mil pad 20mil drill	STD	STD	DBT0038A_M
40	2	U1, U3	Fitted	16 bit 500KSPS 8 Channel SAR ADC	Texas Instruments	ADS8688DBT	DBV0005A_N
41	1	U2	Fitted	IC REG LDO 5V 0.15A SOT23-5	Texas Instruments	TPS70950DBVR	DBV0005A_N
42	1	U4	Fitted	IC REG LDO 3.3V 0.15A SOT23-5	Texas Instruments	TPS70933DBVT	

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