



Bill of Materials

TI DESIGNS

TIDA-00661ADC

Item	Qty	Reference	Fitted	Part Description	Manufacturer	Manufacturer Part Number	Supplier part number	PCB Footprint
2	16	C1, C2, C3, C4, C5, C6, C10, C11, C13, C21, C23, C25, C31, C32, C36, C41	Fitted	CAP, CERM, 47pF, 500V, +/-5%, C0G/NP0, 0805	MuRata	GRM21A5C2E470JW01D	490-5538-1-ND	0805
3	8	C7, C8, C9, C12, C18, C24, C30, C40	Fitted	CAP, CERM, 0.015uF, 50V, +/-10%, X7R, 0805	AVX	08055C153KAT2A	478-1385-1-ND	0805
4	14	C14, C15, C19, C22, C33, C34, C35, C37, C38, C39, C53, C54, C57, C58	Fitted	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	MuRata	GRM188R61E105KA12D	490-3897-1-ND	0603
5	7	C16, C20, C29, C56, C59, C60, C64	Fitted	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H104KA93D	490-1519-1-ND	0603
6	3	C17, C61, C62	Fitted	CAP, CERM, 0.27 µF, 10 V, +/- 10%, X7R, 0603	Kemet	C0603C274K8RACTU	399-4914-1-ND	0603
7	0	C26	Not Fitted	CAP, CERM, 22 µF, 6.3 V, +/- 10%, X5R, 0805	Taiyo Yuden	JMK212BJ226KG-T	587-1468-1-ND	0805
8	1	C27	Fitted	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H471KA01D	490-1489-1-ND	0603
9	1	C28	Fitted	CAP, CERM, 0.33 µF, 10 V, +/- 10%, X5R, 0603	Kemet	C0603C334K8PACTU	399-3112-1-ND	0603
10	3	C42, C43, C44	Fitted	CAP, CERM, 2.2 µF, 6.3 V, +/- 10%, X5R, 0603	MuRata	GRM188R60J225KE19D	81-GRM18R60J225KE19D	0603
11	7	C45, C46, C47, C48, C49, C50, C63	Fitted	CAP, CERM, 10 µF, 10 V, +/- 10%, X5R, 0805	MuRata	GRM219R61A106KE44D	490-4735-1-ND	0805
12	2	C51, C52	Fitted	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	AVX	06033C104JAT2A	478-3713-1-ND	0603
13	1	C55	Fitted	CAP, CERM, 0.15 µF, 10 V, +/- 10%, X7R, 0603	MuRata	GRM188R71A154KA01D	490-1533-1-ND	0603
14	5	D1, D2, D3, D13, D20	Fitted	DIODE, TVS, BIDIRECTIONAL, 3.3VWM, 26VC, SOD323	NXP Semiconductor	PESD3V3L1BA	568-4040-1-ND	SOD323
15	16	D4, D5, D6, D7, D8, D9, D10, D11, D12, D14, D15, D16, D17, D18, D19, D21	Fitted	Diode, P-N, 70V, 0.2A, SOT-323	Diodes Inc	DESD1P0RFW-7	DESD1P0RFW-7DICT-ND	SOT-323
16	1	D22	Fitted	Diode, Zener, 3.6 V, 500 mW, SOD-123	Vishay-Semiconductor	MMSZ5227B-7-F	MMSZ5227B-FDICT-ND	SOD-123
17	2	D23, D24	Fitted	Diode, Zener, 3 V, 500 mW, SOD-123	Vishay-Semiconductor	MMSZ4683-V	69R4754	SOD-123
18	2	FB1, FB2	Fitted	FERRITE CHIP 1000 OHM 300MA 0603	TDK Corporation	MMZ1608B102C	445-8672-1-ND	0603
19	9	J1, J2, J3, J4, J6, J7, J9, J10, J11	Fitted	TERMINAL BLOCK 5.08MM VERT 2POS, TH	On-Shore Technology	ED120/2DS	ED1609-ND	TERM_BLK, 2pos, 5.08mm
20	1	J5	Fitted	Header, 2.54 mm, 13x2, TH	Harwin	M20-9761346	952-1918-ND	Header, 2.54mm, 13x2, TH
21	1	J8	Fitted	Header, Male 2-pin, 100mil spacing,	Sullins	PEC02SAAN		0.100 inch x 2
22	2	J12, J13	Fitted	Header, 2mm, 3x1, Tin, TH	Samtec	TMM-103-01-T-S	SAM1178-03-ND	Header, 2mm, 3x1
23	4	L1, L2, L3, L4	Fitted	1.58 ohm, TH	Würth Elektronik	7447462471	732-2575-ND	D6 x 8.5mm

Item	Qty	Reference	Fitted	Part Description	Manufacturer	Manufacturer Part Number	Supplier part number	PCB Footprint
25	18	R1, R2, R3, R10, R19, R20, R45, R49, R50, R51, R52, R53, R67, R74, R75, R76, R77, R78	Fitted	RES, 200 k, 1%, 0.25 W, 1206	Vishay-Dale	CRCW1206200KFKEA	541-200KFCT-ND	1206
26	10	R4, R5, R6, R7, R8, R9, R34, R35, R65, R66	Fitted	RES, 33.0, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	Panasonic	ERJ-6ENF33R0V	P33.0CCT-ND	0805
27	3	R11, R41, R69	Fitted	RES, 0 ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW08050000Z0EA	541-0.0ACT-ND	0805
28	16	R47, R56, R57, R64, R73	Fitted	RES, 1.0k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06031K00JNEA	541-1.0KGCT-ND	0603
29	0	R14, R17, R22, R31, R54, R55, R63	Not Fitted	RES, 0, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06030000Z0EA	541-0.0GCT-ND	0603
30	6	R23, R25, R43, R44, R59, R68	Fitted	RES, 2.49 k, 1%, 0.125 W, 0805	Vishay-Dale	CRCW08052K49FKEA	541-2.49KCCT-ND	0805
31	2	R24, R38	Fitted	RES, 10 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060310K0JNEA	541-10KGCT-ND	0603
32	12	R28, R29, R30, R36, R48, R62, R82, R83, R84, R85, R86, R87	Fitted	RES, 0, 5%, 0.1 W, 0603	Yageo America	RC0603JR-070RL	311-0.0GRCT-ND	0603
33	0	R32	Not Fitted	RES, 0, 5%, 0.1 W, 0603	Yageo America	RC0603JR-070RL	311-0.0GRCT-ND	0603
34	1	R39	Fitted	RES, 0, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06030000Z0EA	541-0.0GCT-ND	0603
35	4	R42, R46, R80, R88	Fitted	RES, 10.0 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0710KL	311-10.0KHRCT-ND	0603
36	2	R58, R60	Fitted	RES, 43.2 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0743K2L	311-43.2KHRCT-ND	0603
37	0	R61	Not Fitted	RES, 43.2 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0743K2L	311-43.2KHRCT-ND	0603
38	0	R70	Not Fitted	RES, 47.5 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0747K5L	311-47.5KHRCT-ND	0603
39	2	R71, R72	Fitted	RES, 47.5 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0747K5L	311-47.5KHRCT-ND	0603
40	1	R79	Fitted	RES, 1.50 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06031K50FKEA	541-1.50KHCT-ND	0603
41	1	R81	Fitted	RES, 0, 5%, 0.25 W, 1206	Vishay-Dale	CRCW12060000Z0EA	541-0.0ECT-ND	1206
42	2	SH-J1, SH-J2	Fitted	Shunt, 100mil, Gold plated, Black	TE Connectivity	881545-2	A26242-ND	Shunt 2 pos. 100 mil
43	1	U1	Fitted	IC, TEMP SENSOR PREC ANLG, TO-92, TH	TEXAS INSTRUMENTS	LMT87LP	296-37821-1-ND	TO-92
44	1	U2	Fitted	64	TEXAS INSTRUMENTS	ADS131E08IPAG	296-34883-1-ND	PAG
45	1	U3	Fitted	Output, -10 to -2.7 V Input, 5-pin SOT-23 (DBV), -40 to	Texas Instruments	TPS72301DBVT	296-15798-1-ND	DBV0005A
46	1	U4	Fitted	Adjustable 1.2 to 5.5 V Output, 1.7 to 5.5 V Input, 5-pin	Texas Instruments	TPS73201QDBVRQ1	296-19676-1-ND	DBV0005A
47	1	U5	Fitted	Fixed 3 V Output, 1.7 to 5.5 V Input, with Reverse	Texas Instruments	TPS73230DBVT	296-15811-1-ND	DBV0005A
48	1	Y1	Fitted	OSCC, HCMOS, 3.3 V, +/-50 PPM, 2.048 MHZ, SMT	FOX	FXO-HC735-2.048	631-1124-1-ND	