



# Bill of Materials

TI DESIGNS

TIDA-00499\_TR

Item	Qty	Reference	Fitted	Part Description	Manufacturer	Manufacturer Part Number	Supplier part number	PCB Footprint
2	0	C1, C14, C27, C40	Not Fitted	CAP, CERM, 1000pF, 50V, +/-5%, C0G/NP0, 0603	TDK	C1608C0G1H102J	445-1293-1-ND	0603
3	0	C2, C9, C15, C20	Not Fitted	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0603	Kemet	C0603C102K4RACTU	399-7835-1-ND	0603
4	5	C3, C16, C29, C41, C60	Fitted	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	Kemet	C0603C104J4RACTU	399-1097-1-ND	0603
5	0	C4, C10, C17, C23, C30, C36, C43, C48	Not Fitted	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0603	Kemet	C0603C103K4RACTU	399-7841-1-ND	0603
6	0	C5, C7, C8, C18, C19, C22	Not Fitted	CAP, CERM, 0.039uF, 16V, +/-10%, X7R, 0603	Kemet	C0603C393K4RACTU	399-9078-1-ND	0603
7	4	C6, C21, C32, C45	Fitted	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0603	Kemet	C0603C103K4RACTU	399-7841-1-ND	0603
8	4	C11, C24, C38, C50	Fitted	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E105KA12D	490-5307-1-ND	0603
9	4	C12, C25, C37, C51	Fitted	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	MuRata	GRM188R71C105KA12D	490-3900-1-ND	0603
10	4	C13, C26, C39, C52	Fitted	CAP, CERM, 10 µF, 16 V, +/- 10%, X5R, 1206	MuRata	GRM319R61C106KE15D	490-6494-1-ND	1206
11	0	C28, C34, C42, C47	Not Fitted	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0603	MuRata	GRM188R71C102KA01D	GRM188R71C102KA01D-ND	0603
12	0	C31, C33, C35, C44, C46, C49	Not Fitted	CAP, CERM, 0.039uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C393KA01D	GRM188R71C393KA01D-ND	0603
13	2	C53, C58	Fitted	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	TDK	C1608X7R1C105K	445-1604-1-ND	0603
14	1	C54	Fitted	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0603	Taiyo Yuden	EMK107BBJ106MA-T	587-3238-1-ND	0603
15	2	C55, C62	Fitted	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0805	Kemet	C0805C105K8RACTU	399-1172-1-ND	0805
16	1	C56	Fitted	CAP, CERM, 0.1uF, 10V, +/-10%, X7R, 0603	Kemet	C0603C104K8RACTU	399-1095-1-ND	0603
17	2	C57, C61	Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	Kemet	C0603C104K5RACTU	399-5089-1-ND	0603
18	1	C59	Fitted	CAP, TA, 4.7uF, 35V, +/-10%, 1.9 ohm, SMD	Vishay-Sprague	293D475X9035C2TE3	718-1083-1-ND	6032-28
19	4	D1, D4, D7, D10	Fitted	DIODE, TVS, BIDIRECTIONAL, 3.3VWM, 26VC, SOD323	NXP Semiconductor	PESD3V3L1BA	568-4040-1-ND	SOD323
20	8	D2, D3, D5, D6, D8, D9, D11, D12	Fitted	Diode, P-N, 70V, 0.2A, SOT-323	Diodes Inc	DESD1P0RFW-7	DESD1P0RFW-7DIDKR-ND	SOT-323
21	1	D13	Fitted	LED SmartLED Green 570NM	OSRAM	LG L29K-G2J1-24-Z	475-2709-1-ND	0603
22	1	D14	Fitted	DIODE ZENER 3.9V 500MW SOD123	Diodes Incorporated	MMSZ5228B-7-F	MMSZ5228B-FDICT-ND	SOD123
23	1	FB1	Fitted	FERRITE CHIP 1000 OHM 300MA 0603	TDK Corporation	MMZ1608B102C	445-8672-1-ND	0603
25	8	J1, J4, J5, J8, J9, J12, J13, J16	Fitted	Connector, TH, SMA	Emerson Network Power	142-0701-201	J500-ND	SMA
26	6	J2, J6, J10, J14, J17, J18	Fitted	Terminal Block, 4x1, 2.54mm, TH	On Shore Technology Inc	OSTVN02A150	ED10561-ND	TERM_BLK, 2pos, 2.54mm
27	5	J3, J7, J11, J15, J19	Fitted	TERMINAL BLOCK 5.08MM VERT 2POS, TH	On-Shore Technology	ED120/2DS	ED1609-ND	TERM_BLK, 2pos, 5.08mm
28	0	R1, R2, R23, R28, R45, R50, R71, R72	Not Fitted	RES, 2.20 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-072K2L	311-2.20KHRCT-ND	0603
29	20	R3, R4, R5, R6, R9, R24, R25, R26, R27, R30, R46, R47, R48, R49, R53, R67, R68, R69, R70, R74	Fitted	RES, 330 k, 1%, 0.25 W, 1206	Yageo America	RC1206FR-07330KL	311-330KFRCT-ND	1206
30	8	R7, R21, R29, R42, R51, R63, R73, R85	Fitted	RES, 499 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603499RFKEA	541-499HCT-ND	0603
31	4	R8, R31, R52, R75	Fitted	RES, 487 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603487RFKEA	541-487HCT-ND	0603

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32	38	R10, R11, R13, R14, R15, R16, R18, R19, R32, R33, R34, R36, R37, R38, R39, R41, R54, R55, R57, R58, R59, R60, R62, R65, R76, R77, R79, R80, R81, R82, R84, R87, R91, R92, R93, R94, R97, R98	Fitted	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	541-0.0GCT-ND	0603
33	8	R12, R17, R35, R40, R56, R61, R78, R83	Fitted	RES, 22 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060322R0JNEA	541-22GCT-ND	0603
34	4	R20, R44, R66, R88	Fitted	RES, 15 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060315K0JNEA	541-15KGCT-ND	0603
35	4	R22, R43, R64, R86	Fitted	RES, 523 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603523RFKEA	541-523HCT-ND	0603
36	1	R89	Fitted	RES, 300 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603300RJNEA	541-300GCT-ND	0603
37	1	R90	Fitted	RES, 1.00k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-071KL	311-1.00KHRCT-ND	0603
38	1	R95	Fitted	RES, 470, 5%, 0.1 W, 0603	Vishay-Dale	CRCW0603470RJNEA	541-470GCT-ND	0603
39	1	R96	Fitted	RES, 4.02 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06034K02FKEA	541-4.02KHCT-ND	0603
40	4	U1, U2, U3, U4	Fitted	Amplifier, DGK0008A	Texas Instruments	THS4531IDGK	296-30342-1-ND	DGK0008A
41	1	U5	Fitted	uA QUIESCENT CURRENT	TI	TPS7A6533QKVURQ1	296-36857-1-ND	PFM
44	1	U6	Fitted	Shutdown, 1.8 to 5.5 V, -40 to 125 degC, 5-pin SOT23	Texas Instruments	OPA322AIDBVR	296-29488-1-ND	DBV0005A
45	1	U7	Fitted	VOLTAGE REFERENCE, SOIC-8	TEXAS INSTRUMENTS	LM4140CCM-1.0/NOPB	LM4140CCM-1.0/NOPB-ND	D