



# Bill of Materials

TI DESIGNS

TIDA-00490

Item	Qty	Reference	Fitted	Part Description	Manufacturer	Manufacturer Part Number	Supplier Part Number	PCB Footprint
2	3	C1, C3, C5	Fitted	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	AVX	06033C104JAT2A	478-3713-1-ND	0603
3	0	C2, C4, C6, C7	Not Fitted	CAP, CERM, 100pF, 50V, +/-1%, COG/NP0, 0603	AVX	06035A101FAT2A	478-6202-1-ND	0603
4	0	C8, C9, C10, C11	Not Fitted	CAP, CERM, 0.01uF, 25V, +/-5%, COG/NP0, 0603	TDK	C1608C0G1E103J	445-2664-1-ND	0603
5	5	C12, C15, C16, C18, C19	Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	Kemet	C0603C104K5RACTU	399-5089-1-ND	0603
6	1	C13	Fitted	CAP, 1A, 10 uF, 16 V, +/- 10%, 2 ohm, SMD	Vishay-Sprague	T491B106K016AT	399-3706-1-ND	3528-21
7	3	C14, C17, C20	Fitted	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	TDK	C1608X7R1C105K	445-1604-1-ND	0603
8	1	C21	Fitted	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H471KA01D	490-1489-1-ND	0603
9	2	C22, C23	Fitted	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	Taiyo Yuden	UMK107AB7105KA-T	587-3247-1-ND	0603
10	0	C24, C25	Not Fitted	CAP, CERM, 1000pF, 50V, +/-5%, COG/NP0, 0603	TDK	C1608C0G1H102J	445-1293-1-ND	0603
11	2	D1, D2	Fitted	TVS DIODE 400VWM 648VC SMC	Littelfuse Inc	SMCJ400CA	SMCJ400CALFCT-ND	SMC
12	2	D3, D4	Fitted	DIODE ZENER 5.4V 1W PMDS	Rohm Semiconductor	PTZTE255.1B	PTZTE255.1BCT-ND	SMA
13	1	D5	Fitted	DIODE ZENER 4.1V 1W PMDS	Rohm Semiconductor	PTZTE253.9B	PTZTE253.9BCT-ND	DO-214AC, SMA
14	1	D6	Fitted	Diode, Schottky, 30V, 0.2A, SOT-23	Diodes Inc.	BAT54C-7-F	BAT54C-FDICT-ND	SOT-23
15	2	D7, D8	Fitted	DIODE ZENER 15.4V 1W PMDS	Rohm Semiconductor	PTZTE2515B	PTZTE2515BCT-ND	SMA
17	2	J1, J2	Fitted	Header, 100mil, 3x1, TH	Mill-Max	800-10-003-10-001000	ED7203-ND	Header, 3x1, 100mil, TH
18	2	Q1, Q2	Fitted	MOSFET N-CH 600V 2A TO252	Alpha & Omega	AOD2N60	785-1180-1-ND	TO-252, (D-Pak)
19	2	Q3, Q4	Fitted	Transistor, NPN, 400V, 500mA, SOT-89	Diodes Inc.	FCX458	FCX458CT-ND	SOT-89
20	12	R1, R2, R5, R6, R9, R10, R61, R62, R63, R64, R65, R66	Fitted	RES, 100 k, 1%, 0.25 W, 1206	Yageo America	RC1206FR-07100KL	311-100KFRCT-ND	1206
21	4	R3, R4, R75, R76	Fitted	RES, 2.20 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-072K2L	311-2.20KHRCT-ND	0603
22	3	R7, R8, R13	Fitted	RES, 0, 5%, 0.1 W, 0603	Yageo America	RC0603JR-070RL	311-0.0GRCT-ND	0603
23	2	R11, R12	Fitted	RES, 100k ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW1206100KFKEA	541-100KFCT-ND	1206
24	2	R14, R48	Fitted	RES, 10.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310K0FKEA	541-10.0KHCT-ND	0603
25	2	R15, R18	Fitted	RES, 100 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100RFKEA	541-100HCT-ND	0603

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26	1	R16	Fitted	RES, 470 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603470RJNEA	541-470GCT-ND	0603
27	1	R17	Fitted	RES, 30k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060330K0JNEA	541-30KGCT-ND	0603
28	4	R19, R26, R27, R32	Fitted	RES, 160 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603160KFKEA	541-160KHCT-ND	0603
29	12	R20, R21, R22, R23, R24, R25, R28, R29, R30, R31, R33, R34	Fitted	RES, 47.0 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0747KL	311-47.0KHRCT-ND	0603
30	2	R35, R42	Fitted	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA	541-100KHCT-ND	0603
31	4	R36, R37, R38, R39	Fitted	RES, 10.0, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060310R0FKEA	541-10.0HCT-ND	0603
32	5	R40, R41, R55, R56, R58	Fitted	RES, 0, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06030000Z0EA	541-0.0GCT-ND	0603
33	2	R43, R44	Fitted	RES, 2.61k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032K61FKEA	541-2.61KHCT-ND	0603
34	0	R45, R47	Not Fitted	RES, 10.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310K0FKEA	541-10.0KHCT-ND	0603
35	0	R46, R50, R51, R53	Not Fitted	RES, 0, 5%, 0.063 W, 0402	Yageo	RC0402JR-070RL	311-0.0JRTR-ND	0402
36	4	R49, R52, R54, R57	Fitted	RES, 1.50k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K50FKEA	541-1.50KHCT-ND	0603
37	0	R59	Not Fitted	RES, 0, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06030000Z0EA	541-0.0GCT-ND	0603
38	1	R60	Fitted	RES, 47 k, 5%, 0.1 W, 0603	Yageo America	RC0603JR-0747KL	311-47KGRCT-ND	0603
39	8	R73, R74	Fitted	RES SMD 10K OHM 1% 1/4W 1206	Rohm Semiconductor	MCR18ERTF1002	RHM10.0KCJCT-ND	1206
40	1	T1	Fitted	TRANSFORMER SMD	Würth Electronics Midcom	750313638	1297-1105-1-ND	
41	1	U1	Fitted	3MHz Single Micropower R-R Out Op Amp	Ti	LMV551MF	LMV551MF/NOPBCT-ND	MF05A_L
42	1	U2	Fitted	100 ppm/°C, 45µA-12mA, Adjustable	Ti	LM4041BIDBZ	296-20914-1-ND	SOT23
43	1	U3	Fitted	OPERATIONAL AMPLIFIERS, PW0014A	Texas Instruments	OPA4314AIPW	296-37662-1-ND	PW0014A
44	1	U4	Fitted	IC REG LDO 3.3V 0.15A SOT23-5	Texas Instruments	TPS70933DBVT	296-35483-1-ND	DBV0005A
45	1	U5	Fitted	IC MCU 16BIT 4KB FLASH 20TSSOP	Ti	MSP430G2332IPW20	296-38569-1-ND	20-TSSOP
46	1	U6	Fitted	D0008A	Texas Instruments	ISO1541D	296-34872-1-ND	D0008A
47	1	U7	Fitted	Supplies, DBV0005A	Texas Instruments	SN6501DBV	296-30388-1-ND	DBV0005A

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