



Bill of Materials

TI DESIGNS

TIDA-00496_CU

Item	Qty	Reference	Fitted	Part Description	Manufacturer	Manufacturer Part Number	Supplier part number	PCB Footprint
2	1	C4	Fitted	CAP CER 15PF 50V 5% NP0 0402	TDK Corporation	C1005C0G1H150J050BA	445-1237-1-ND	0402
3	2	C5, C42	Fitted	CAP, CERM, 39pF, 25V, +/-5%, C0G/NP0, 0402	MuRata	GRM1555C1E390JA01D	490-6178-1-ND	0402
4	2	C7, C11	Fitted	CAP, CERM, 10uF, 35V, +/-10%, X7R, 1206	Taiyo Yuden	GMK316AB7106KL	587-3007-1-ND	1206
5	2	C9, C12	Fitted	CAP, CERM, 33pF, 50V, +/-5%, C0G/NP0, 0603	AVX	06035A330JAT2A	478-1169-1-ND	0603
6	3	C10, C16, C18	Fitted	CAP, CERM, 100pF, 50V, +/-10%, X7R, 0402	Yageo America	CC0402KRX7R9BB101	311-1419-1-ND	0402
7	4	C13, C47, C50, C51	Fitted	CAP, CERM, 1000pF, 25V, +/-10%, X5R, 0402	MuRata	GRM155R61E102KA01D	490-6315-1-ND	0402
8	2	C14, C26	Fitted	CAP, TA, 100uF, 10V, +/-20%, 0.6 ohm, SMD	Vishay-Sprague	293D107X0010D2TE3	718-1054-1-ND	7343-31
9	4	C15, C20, C22, C25	Fitted	CAP, CERM, 0.1uF, 10V, +/-10%, X5R, 0402	TDK	C1005X5R1A104K	445-1265-1-ND	0402
10	4	C19, C21, C23, C27	Fitted	CAP, CERM, 1uF, 6.3V, +/-10%, X5R, 0603	MuRata	GRM185R60J105KE26D	490-7765-1-ND	0603
11	1	C24	Fitted	CAP, CERM, 0.22uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C224KA01D	490-3293-1-ND	0603
12	2	C34, C36	Fitted	CAP, CERM, 1000pF, 2000V, +/-10%, X7R, 1812	AVX	1812GC102KAT1A	478-3000-1-ND	1812
13	1	C35	Fitted	CAP, CERM, 4700pF, 2000V, +/-10%, X7R, 1812	AVX	1812GC472KAT1A	478-3003-1-ND	1812
14	1	C40	Fitted	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	Kemet	C0603C104K4RACTU	399-1096-1-ND	0603
15	4	C43, C45, C52, C53	Fitted	CAP, CERM, 0.01uF, 50V, +/-10%, C0G/NP0, 0402	MuRata	GCM155R71H103KA55D	490-4762-1-ND	0402
16	2	D1, D2	Fitted	Diode, Schottky, 200V, 1A, PowerDI123	Diodes Inc.	DFLS1200-7	DFLS1200DICT-ND	powerDI123
17	1	D3	Fitted	Diode, Zener, 3.9V, 550mW, SMB	ON Semiconductor	1SMB5915BT3G	1SMB5915BT3GOSCT-ND	SMB
18	1	D4	Fitted	DCK0006A	Texas Instruments	TPD4E1U06DCK	296-39347-1-ND	DCK0006A_N
19	1	FB1	Fitted	FERRITE CHIP 1000 OHM 300MA 0603	TDK Corporation	MMZ1608B102C	445-8672-1-ND	FB0603
20	1	J2	Fitted	CONN TERM BLOCK 2.54MM 2POS PCB	On Shore Technology Inc	OSTVN02A150	ED10561-ND	X6.5_STACK
21	1	J3	Fitted	CONN MOD JACK R/A 8P8C SHIELDED	TE Connectivity	6116526-1	A107222-ND	TE_6116526-1
22	1	J5	Fitted	Receptacle, 0.8mm, 25x2, SMT	Samtec	ERF8-025-05.0-L-DV-K-TR	ERF8-025-05.0-L-DV-K-TR	CONN_ERF8-025-05_0-L-DV-L-TR
23	7	LD1, LD2, LD3, LD4, LD5, LD6, LD7	Fitted	LED SmartLED Green 570NM	OSRAM	LG L29K-G2J1-24-Z	475-2709-1-ND	LED0603AA
25	17	R1, R2, R3, R4, R5, R6, R7, R11, R12, R22, R26, R27, R28, R29, R31, R59, R95	Fitted	RES, 100 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW0402100RJNED	541-100JCT-ND	0402
26	2	R8, R9	Fitted	RES, 0 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04020000Z0ED	541-0.0JCT-ND	0402
27	13	R10, R17, R18, R37, R38, R41, R43, R45, R56, R62, R65, R110, R113	Fitted	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	541-0.0GCT-ND	0603
28	1	R13	Fitted	RES, 33 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040233R0JNED	541-33JCT-ND	0402
29	12	R14, R24, R42, R46, R51, R52, R69, R73, R91, R92, R94, R98	Fitted	RES, 2.2k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04022K20JNED	541-2.2KJCT-ND	0402
30	1	R16	Fitted	RES, 100 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603100RJNEA	541-100GCT-ND	0603

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31	2	R32, R39	Fitted	RES, 0 ohm, 5%, 0.125W, 0805	Yageo America	RC0805JR-070RL	311-0.0ARCT-ND	0805_HV
32	7	R35, R103, R106, R107, R108, R109, R112	Fitted	RES, 470 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07470RL	311-470HRCT-ND	0603
33	4	R47, R53, R54, R55	Fitted	RES, 49.9 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040249R9FKED	541-49.9LCT-ND	0402
34	1	R48	Fitted	RES, 4.87k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K87FKEA	541-4.87KHCT-ND	0603
35	1	R64	Fitted	RES, 3.3k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04023K30JNED	541-3.3KJCT-ND	0402
36	1	R80	Fitted	RES SMD 82 OHM 1% 1/10W 0603	Vishay-Dale	CRCW060382R0FKEA	541-82.0HCT-ND	0603
37	4	R81, R85, R87, R88	Fitted	RES, 75.0 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-0775RL	311-75.0HRCT-ND	0603
38	1	R86	Not Fitted	RES, 130 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07130RL	311-130HRCT-ND	0603
39	1	R89	Fitted	RES, 1.0Meg ohm, 5%, 0.25W, 1206	Vishay-Dale	CRCW12061M00JNEA	541-1.0MECT-ND	1206
40	1	R105	Fitted	RES, 1.50k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021K50FKED	541-1.50KLCT-ND	0402
41	1	T1	Fitted	TRANSFORMER, MDL, XFMR SGL ETHR LAN, SOIC-16	PULSE ELECTRONICS	HX1198FNL	553-2209-1-ND	XFMR_ HX1198FNL
44	1	U4	Fitted	WQFN-48	TEXAS INSTRUMENTS	DP83630SQE/NOPB	DP83630SQE/NOPBCT-ND	QFN50P700X700X80-49N
45	1	U5	Fitted	IC, Low Dropout Voltage Regulator, 3.3 V, 2.0 A	Texas Instruments	TPS75433QPWP	296-2692-5-ND	PWP20
46	1	Y2	Fitted	CRYSTAL 25.0MHZ 18PF SMD	CTS-Frequency Controls	445I23D25M00000	CTX1175CT-ND	XTAL_ATS250BSM-1E_1
47	0	C1, C3	Not Fitted	CAP CER 1UF 16V 10% X5R 1206	Murata Electronics	GRM31MR61C105KA0	490-1810-1-ND	1206
48	0	C2	Not Fitted	CAP, CERM, 0.1uF, 16V, +80/-20%, Y5V, 0603	Kemet	C0603C104Z4VACTU	399-1098-1-ND	0603
49	0	C6, C8, C39	Not Fitted	CAP CER 0.22UF 6.3V 10% X7R 0603	Kemet	C0603C224K9ACTU	399-9046-1-ND	0603
50	0	C28, C29, C30, C31, C32	Not Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	AVX	06035C104KAT2A	478-5052-1-ND	0603
51	0	C33	Not Fitted	CAP, TA, 10uF, 16V, +/-20%, 2 ohm, SMD	Vishay-Sprague	293D106X0016B2TE3	718-1120-1-ND	3528-21
52	0	C37	Not Fitted	CAP, CERM, 1000pF, 25V, +/-10%, X5R, 0402	MuRata	GRM155R61E102KA01D	490-6315-1-ND	0402
53	0	C38, C41, C44	Not Fitted	CAP, CERM, 4.7uF, 6.3V, +/-10%, X5R, 0603	Kemet	C0603C475K9PACTU	399-3482-1-ND	0603
54	0	C46	Not Fitted	CAP, CERM, 100pF, 50V, +/-10%, X7R, 0402	Yageo America	CC0402KRX7R9BB101	311-1419-1-ND	0402
55	0	C48, C49	Not Fitted	CAP, CERM, 33pF, 50V, +/-5%, COG/NP0, 0603	AVX	06035A330JAT2A	478-1169-1-ND	0603
56	0	FB3, FB4	Not Fitted	FERRITE CHIP 1000 OHM 300MA 0603	TDK Corporation	MMZ1608B102C	445-8672-1-ND	FB0603
58	0	J1	Not Fitted	CONN HEADER 3POS 2MM VERT T/H	3M	951103-8622-AR	3M9322-ND	HEADER_1X3X2MM
59	0	J4	Not Fitted	TXRX MMF FE SONET OC-3 2X5, TH	AVAGO TECHNOLOGIES	HFBR-5961AL	516-2420-ND	AVAGO_HFBR-5961AL
60	0	L1, L2	Not Fitted	Inductor, Shielded, Composite, 1uH, 1.15A, 0.11 ohm, SMD	Samsung	CIG21L1R0MNE	1276-6200-1-ND	0805_HV
61	0	R114	Not Fitted	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	541-0.0GCT-ND	0603
62	0	R19, R23	Not Fitted	RES, 22 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040222R0JNED	541-22JCT-ND	0402
63	0	R20, R40	Not Fitted	RES, 1.00Meg ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021M00FKED	541-1.00MLCT-ND	0402
64	0	R21, R33, R96	Not Fitted	RES, 4.7k ohm, 5%, 0.1W, 0603	Yageo America	RC0603JR-074K7L	311-4.7KGRCT-ND	0603
65	0	R25, R30, R49, R57, R90, R93, R97, R99, R100, R101, R102	Not Fitted	RES, 2.2k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04022K20JNED	541-2.2KJCT-ND	0402
66	0	R61, R72, R79, R84	Not Fitted	RES, 130 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07130RL	311-130HRCT-ND	0603
67	0	R67, R68, R82, R83	Not Fitted	RES SMD 82 OHM 1% 1/10W 0603	Vishay-Dale	CRCW060382R0FKEA	541-82.0HCT-ND	0603
68	0	R70, R71	Not Fitted	RES SMD 49.9 OHM 1% 1/10W 0603	Vishay-Dale	CRCW060349R9FKEA	541-49.9HCT-ND	0603
69	0	R74, R75, R77, R78	Not Fitted	RES, 49.9 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040249R9FKED	541-49.9LCT-ND	0402
70	0	U1	Not Fitted	IC REG LDO 1.8V 50MA SC70-5	TI	TPS71518DCKR	296-18731-1-ND	SOP_5P.65MM(DCK)
71	0	U2	Not Fitted	Family, PW0008A	Texas Instruments	CDCLVC1102PW	296-27610-1-ND	PW0008A_N
72	0	U3	Not Fitted	2.5-V, and 3.3-V Outputs, PW0014A	Texas Instruments	CDCE913PW	296-22670-5-ND	PW0014A_N
73	0	X1	Not Fitted	OSC 25.00 MHZ 3.3V HIGH STAB SMD	EPSON	HG-2150CA 25.000M-BXC3	SER3737CT-ND	OSC_HG-2150CA
74	0	Y1	Not Fitted	CRYSTAL 25.0MHZ 18PF SMD	CTS-Frequency Controls	445I23D25M00000	CTX1175CT-ND	XTAL_ATS250BSM-1E_1