

Bill of Materials

TI DESIGNS TIDA-00080

Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Note
9	C1, C85, C90, C92, C95, C102, C103, C104, C106	CAP, CERM, 4.7uF, 50V, +/-10%, X5R, 0805	TDK	C2012X5R1H475K125AB	0805_HV	
46	C3, C75, C77, C86, C87, C89, C93, C96, C98, C100, C101, C102	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	Kemet	C0603C104K5RACTU	0603	
0	C4, C5, C6, C7, C8, C10, C11, C37, C38, C40, C41, C43, C44	CAP, CERM, 47pF, 500V, +/-5%, C0G/NP0, 0805	MuRata	GRM21A5C2E470JW01D	0805_HV	DNI
39	C09, C111, C113, C117, C121, C123, C125, C126, C129, C130	CAP, CERM, 10uF, 35V, +/-20%, X7R, 1210	Taiyo Yuden	GMK325AB7106MM-T	1210	
0	C12, C13, C14, C16, C51, C53, C55	CAP, CERM, 1500pF, 100V, +/-10%, X7R, 0603	AVX	06031C152KAT2A	0603	DNI
8	C15, C27, C94, C97, C99, C110, C116, C120	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	AVX	06031C103J4Z4A	0603	
0	C21, C23, C25	CAP, CERM, 4700pF, 100V, +/-10%, X7R, 0603	AVX	06031C472KAT2A	0603	DNI
0	C22, C24, C26, C29, C30, C31	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	Kemet	C0603C104K5RACTU	0603	DNI
4	C57, C58, C59, C60	CAP CER 1000PF 1KV 10% RADIAL	Vishay BC Components	S102K29Y5PN63J5R	CAP_200mil	
7	C61, C62, C63, C64, C65, C66, C67	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	AVX	06033C104JAT2A	0603	
6	C68, C79, C80, C81, C82, C83	CAP, AL, 22uF, 25V, +/-20%, 0.76 ohm, SMD	Nichicon	UUD1E220MCL1GS	SM_RADIAL_5MM	
9	D1, D2, D3, D4, D5, D7, D14, D15, D16	LED SmartLED Green 570NM	OSRAM	LG L29K-G2J1-24-Z	LED0603AA	
9	D6, D17, D18, D19, D20, D21, D22, D23, D24	Diode, Zener, 6.2V, 1W, PowerDI123	Diodes Inc.	DFLZ6V2-7	powerDI123	
12	D8, D9, D10, D11, D12, D13, D25, D26, D27, D28, D31, D34	Diode, P-N, 70V, 0.2A, SOT-323	Diodes Inc	DESD1PORFW-7	SOT-323	
10	D29, D30, D32, D33, D35, D36, D37, D38, D39, D40	Diode, Schottky, 20V, 0.5A, SOD-123	Fairchild Semiconductor	MBR0520L	SOD-123	
23	F8, FB9, FB10, FB11, FB12, FB13, FB14, FB15, FB16, FB17	FERRITE CHIP 1000 OHM 300MA 0603	TDK Corporation	MMZ1608B102C	FB0603	
8	FID1, FID2, FID3, FID4, FID5, FID6, FID7, FID8	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	Fiducial10-20	
24	H7, J8, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26,	Header, Male 2-pin, 100mil spacing,	FCI	68001-402HLF	HDR100_1X2	
6	J9, J10, J11, J12, J13, J14	TERMINAL BLOCK 5.08MM VERT 2POS, TH	On-Shore Technology	ED120/2DS	CONN_ED120-2DS	
0	J15	TERMINAL BLOCK 5.08MM VERT 2POS, TH	On-Shore Technology	ED120/2DS	CONN_ED120-2DS	DNI
1	J32	Connector, Right Angle 2x20 pin, 100mil spacing	TE Connectivity	2-826634-0	CONN_61304021021	
4	MH1, MH2, MH3, MH4	Mountin hole, NPTH Drill 3.2mm			MH3.2	
9	R1, R2, R3, R4, R5, R28, R30, R32, R60	RES, 3.9k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06033K90JNEA	0603	
20	R4, R27, R29, R31, R33, R34, R35, R36, R37, R40, R43, R45	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000020EA	0603	
6	R7, R8, R10, R11, R13, R19	RES, 0 ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW08050000020EA	0805_HV	
4	R14, R63, R64, R65	RES, 11.5k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060311K5FKEA	0603	
4	R15, R59, R61, R62	RES 37.4K OHM 1/10W .1% 0603 SMD	Panasonic	ERA-3AEB3742V	0603	
0	R16, R17, R18	RES, 4.70k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-074K7L	0603	DNI
14	R39, R41, R42, R44, R46, R47, R48, R50, R51, R53, R55, R56	RES, 10.0 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310R0FKEA	0603	
5	T1, T2, T3, T4, T5	Transformer 469uH SMD	Wurth Electronics Midcom	750342271	760390015	
12	TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	Test Point, 0.040 Hole	STD	STD	TP-040_RND	
4	U1, U17, U19, U20	-36V, -200mA, Ultralow-Noise, Negative Linear Regulator	Texas Instruments	TPS7A3001DGNR	MSOP8(DGN)	
0	U2, U3, U4	IC, 1.1nV/Hz Noise, Low Power, Precision OpAmp	Texas Instruments	OPA211ID	S08	DNI
6	U5, U6, U7, U8, U9, U10	20 MHz, Isolated Delta-Sigma Modulator, CMOS Interface:	Texas Instruments	AMC1304M25	DW0016A_N	
0	U11	20 MHz, Isolated Delta-Sigma Modulator, CMOS Interface:	Texas Instruments	AMC1304M25	DW0016A_N	DNI
5	U12, U13, U14, U15, U16	Transformer Driver for Isolated Power Supplies, DBV0005A	Texas Instruments	SN6501DBV	DBV0005A_N	
5	U18, U21, U22, U23, U24	Regulator, LDO, 5V, 0.15A, SOT23-5	Texas Instruments	TLV70450DBV	DBV0005A_N	