

TIDA-00912 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		TIDA-00912	Any	Printed Circuit Board	
C1, C2	2	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C3	1	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 µF, 25 V, +/- 10%, X7R, 0603	0603
C4, C6, C7, C8, C9, C10, C11, C12, C15, C16	10	0.1uF	C0603C104J3RAC	Kemet	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
C5	1	10uF	GRM188R6YA106MA73	Nichicon	CAP, CERM, 10 µF, 35 V, +/- 20%, X5R, 0603	0603
C13	1	10uF	C1608X5R1E106M080AC	TDK	CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 0603	0603
C14	1	10uF	C2012X5R1E106K125AB	TDK	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0805	0805
C17	1	0.22uF	C0603C224J3RAC7867	Kemet	CAP, CERM, 0.22 µF, 25 V, +/- 5%, X7R, 0603	0603
C18, C19	2	330pF	C1608C0G1H331J	TDK	CAP, CERM, 330 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
D1, D5	2	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
D2, D3	2	40V	MBR0540T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.5 A, SOD-123	SOD-123
D4	1	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Phillips panhead	Screw
J1, J2	2		1725656	Phoenix Contact	Terminal Block, 100mil, 2x1, 6A, 63V, TH	6.2x8.5x5.54 mm
J3	1		142-0701-201	Emerson Network Power	Connector, TH, SMA	SMA
R1, R2	2	18	CRCW060318R0JNEA	Vishay-Dale	RES, 18, 5%, 0.1 W, 0603	0603
R3	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R4, R15	2	1.00k	ERJ-3EKF1001V	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R5, R6	2	576	CRCW0603576RFKEA	Vishay-Dale	RES, 576, 1%, 0.1 W, 0603	0603
R7	1	6.34k	CRCW06036K34FKEA	Vishay-Dale	RES, 6.34 k, 1%, 0.1 W, 0603	0603
R8	1	5.10k	RG1608P-512-B-T5	Susumu Co Ltd	RES, 5.10 k, 0.1%, 0.1 W, 0603	0603
R9	1	1.27k	RT0603BRD071K27L	Yageo America	RES, 1.27 k, 0.1%, 0.1 W, 0603	0603
R10, R11	2	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R12, R13	2	15.0k	RC0603FR-0715KL	Yageo America	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R14	1	36	CRCW060336R0JNEA	Vishay-Dale	RES, 36, 5%, 0.1 W, 0603	0603
R16, R17, R18, R19	4	12.0	RT0603BRD0712RL	Yageo America	RES, 12.0, 0.1%, 0.1 W, 0603	0603
T1	1	50 uH	750342879	Würth Elektronik	Transformer, 50 uH, SMT	9.14x8mm
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13	13	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
U1, U2	2		LM4040BIM3-2.5	Texas Instruments	Precision Micropower Shunt Voltage Reference, 3-pin SOT-23	MF03A
U3	1		OPA2376AID	Texas Instruments	Precision, Low Noise, Low Quiescent Current Operational Amplifier, 2 to 5.5 V, -40 to 125 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Br)	D0008A
U4	1		AMC1301DWVR	Texas Instruments	200 kHz, Fully-Differential Isolation Amplifier, DWV0008A	DWV0008A
U5	1		SN6501DBVR	Texas Instruments	Transformer Driver for Isolated Power Supplies, DBV0005A	DBV0005A
U6	1		REF2033AIDDCR	Texas Instruments	Low-Drift, Low-Power, Dual-Output, VREF and VREF / 2 Voltage References, DDC0005A	DDC0005A
U7	1		OPA376AIDBVR	Texas Instruments	Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br)	DBV0005A

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