

TIDA-00928 REV E2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C8	1	15pF	GRM1555C1H150JA01D	MuRata	CAP, CERM, 15pF, 50V, +/-5%, C0G/NP0, 0402	0402
C11, C49	2	39pF	GRM1555C1H390JA01D	MuRata	CAP, CERM, 39 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C13, C24	2	10uF	GMK316AB7106KL	Taiyo Yuden	CAP, CERM, 10uF, 35V, +/-10%, X7R, 1206	1206
C16, C21	2	33pF	06035A330JAT2A	AVX	CAP, CERM, 33pF, 50V, +/-5%, C0G/NP0, 0603	0603
C17, C25	2	1uF	EMK105BJ105KVHF	Taiyo Yuden	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0402	0402
C18, C57, C59	3	22uF	CGA6P1X7R1C226M250AC	TDK	CAP, CERM, 22 µF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	1210
C20, C48, C54	3	0.01uF	GCM155R71H103KA55D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, C0G/NP0, 0402	0402
C23, C26, C36, C37	4	0.1uF	C1005X5R1A104K	TDK	CAP, CERM, 0.1uF, 10V, +/-10%, X5R, 0402	0402
C27, C31, C33, C34	4	1uF	GRM185R60J105KE26D	MuRata	CAP, CERM, 1uF, 6.3V, +/-10%, X5R, 0603	0603
C38, C39	2	1000pF	1812GC102KAT1A	AVX	CAP, CERM, 1000pF, 2000V, +/-10%, X7R, 1812	1812
C40	1	4700pF	1812GC472KAT1A	AVX	CAP, CERM, 4700pF, 2000V, +/-10%, X7R, 1812	1812
C50, C52	2	0.1uF	GMK105BJ104KV-F	Taiyo Yuden	CAP, CERM, 0.1 µF, 35 V, +/- 10%, X5R, 0402	0402
C55	1	0.1uF	C0603C104K4RACTU	Kemet	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	0603
C56, C58	2	10uF	CGA6P1X7R1E106M250AC	TDK	CAP, CERM, 10 µF, 25 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	1210
D1, D2	2		DFLS1200-7	Diodes Inc.	Diode, Schottky, 200V, 1A, PowerDI123	PowerDI123
D3, D4	2	3.9V	1SMB5915BT3G	ON Semiconductor	Diode, Zener, 3.9V, 550mW, SMB	SMB
F1	1	1000 OHM	MMZ1608B102C	TDK Corporation	FERRITE CHIP 1000 OHM 300MA 0603	0603
J1	1		OSTVN02A150	On Shore Technology Inc	CONN TERM BLOCK 2.54MM 2POS PCB	TERM_BLK, 2pos, 2.54mm
J3	1	6116526-1	6116526-1	TE Connectivity	CONN MOD JACK R/A 8P8C SHIELDED	RJ45
J4	1		ERF8-025-05.0-L-DV-K-TR	Samtec	Receptacle, 0.8mm, 25x2, SMT	25x2 Socket Strip
L1, L2	2	5 ohm	742792005	Würth Elektronik	Ferrite Bead, 5 ohm @ 100 MHz, 0.7 A, 0805	0805
LD1, LD2, LD3, LD4, LD5	5	Green	LG L29K-G2J1-24-Z	OSRAM	LED SmartLED Green 570NM	0603
MH1, MH2, MH3, MH4	4		N/A	N/A	Mountin hole, NPTH Drill 3.2mm	
R1, R2, R3, R4, R5, R6, R7, R8, R10, R11, R23, R24, R25, R26, R27, R28, R62	17	100	CRCW0402100RJNED	Vishay-Dale	RES, 100 ohm, 5%, 0.063W, 0402	0402
R13	1	33	CRCW040233R0JNED	Vishay-Dale	RES, 33 ohm, 5%, 0.063W, 0402	0402
R17, R19, R20, R33, R35, R41, R44, R45, R48, R51, R53, R61, R84	13	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R22, R86	2	4.22k	CRCW06034K22FKEA	Vishay-Dale	RES, 4.22 k, 1%, 0.1 W, 0603	0603
R32, R49, R76, R80, R83	5	470	RC0603FR-07470RL	Yageo America	RES, 470 ohm, 1%, 0.1W, 0603	0603
R36	1	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00Meg ohm, 1%, 0.063W, 0402	0402

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R39, R40, R42, R43	4	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9 ohm, 1%, 0.063W, 0402	0402
R50, R64, R65, R70, R75, R77, R81, R82	8	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2k ohm, 5%, 0.063W, 0402	0402
R54, R55, R56, R57	4	75.0	RC0603FR-0775RL	Yageo America	RES, 75.0 ohm, 1%, 0.1W, 0603	0603
R58	1	1.0Meg	CRCW12061M00JNEA	Vishay-Dale	RES, 1.0Meg ohm, 5%, 0.25W, 1206	1206
R73	1	4.87k	CRCW06034K87FKEA	Vishay-Dale	RES, 4.87k ohm, 1%, 0.1W, 0603	0603
R74	1	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00k ohm, 1%, 0.063W, 0402	0402
R85, R87	2	2.40k	ERA-3AEB242V	Panasonic	RES, 2.40 k, 0.1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
T1	1		HX1198FNL	PULSE ELECTRONICS	TRANSFORMER, MDL, XFMR SGL ETHR LAN, SOIC-16	-
TP1	1	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
U3	1		DP83822RHBR	Texas Instruments	10/100 Ethernet PHY, RHB0032B	RHB0032B
U4, U8	2		TPD4E05U06QDQARQ1	Texas Instruments	1, 4, 6 CHANNEL PROTECTION SOLUTION FOR SUPER-SPEED (UP TO 6 GBPS) INTERFACE, DQA0010A	DQA0010A
U5	1		CDCLVC1102PW	Texas Instruments	3.3 V and 2.5 V LVCMOS High-Performance Clock Buffer Family, PW0008A	PW0008A
U6, U7	2		TL1963AQKTTTRQ1	Texas Instruments	Single Output Fast Transient Response LDO, 1.5 A, Adjustable 1.21 to 20 V Output, 2.1 to 20 V Input, 5-pin DDPK (KTT), -40 to 125 degC, Green (RoHS & no Sb/Br)	KTT0005A
X1	1	25MHz	HG-2150CA 25.000M-BXC3	EPSON	OSC 25.00 MHZ 3.3V HIGH STAB SMD	4-SMD, No Lead (DFN, LCC)
Y2	1	25MHz	445I23D25M00000	CTS-Frequency Controls	CRYSTAL 25.0MHZ 18PF SMD	2-SMD
C1, C4	0	1uF	GRM319R61A105KA01D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X5R, 1206	1206
C2, C7, C44	0	0.22uF	GRM188R70J224KA88D	MuRata	CAP, CERM, 0.22uF, 6.3V, +/-10%, X7R, 0603	0603
C3, C9	0	33pF	06035A330JAT2A	AVX	CAP, CERM, 33pF, 50V, +/-5%, C0G/NP0, 0603	0603
C5	0	0.1uF	C0603C104Z4VACTU	Kemet	CAP, CERM, 0.1uF, 16V, +80/-20%, Y5V, 0603	0603
C10	0	0.01uF	GCM155R71H103KA55D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, C0G/NP0, 0402	0402
C12	0	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100pF, 50V, +/-10%, X7R, 0402	0402
C28, C29, C32, C35	0	39pF	GRM1555C1H390JA01D	MuRata	CAP, CERM, 39 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C41, C43, C45	0	4.7uF	C0603C475K9PACTU	Kemet	CAP, CERM, 4.7uF, 6.3V, +/-10%, X5R, 0603	0603
C42, C46	0	1000pF	GRM155R61E102KA01D	MuRata	CAP, CERM, 1000pF, 25V, +/-10%, X5R, 0402	0402
FB1, FB2, FB3	0	1000 OHM	MMZ1608B102C	TDK Corporation	FERRITE CHIP 1000 OHM 300MA 0603	0603
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
J2	0	951103-8622-AR	951103-8622-AR	3M	CONN HEADER 3POS 2MM VERT T/H	0.079 inch x 3
R9	0	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00Meg ohm, 1%, 0.063W, 0402	0402
R12, R18, R29, R30, R46, R47, R52	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R14, R15	0	22	CRCW040222R0JNED	Vishay-Dale	RES, 22 ohm, 5%, 0.063W, 0402	0402
R16, R63, R66, R67, R68, R69, R72	0	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2k ohm, 5%, 0.063W, 0402	0402
R31, R59, R60	0	4.7k	RC0603JR-074K7L	Yageo America	RES, 4.7k ohm, 5%, 0.1W, 0603	0603

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U1	0	TPS71518D CKR	TPS71518DCKR	TI	IC REG LDO 1.8V 50MA SC70-5	SOP-5 (DCK)
U2	0		CDCE913PW	Texas Instruments	Programmable 1-PLL VCXO Clock Synthesizer With 1.8-V, 2.5-V, and 3.3-V Outputs, PW0014A	PW0014A
Y1	0	25MHz	445I23D25M00000	CTS-Frequency Controls	CRYSTAL 25.0MHZ 18PF SMD	2-SMD