

Alligator Board r02 - Partlist

Description	Part Number	Manufacturer	Designator	Quantity
Capacitor 0603, 100nF X7R 25V			C1, C2_1, C2_2, C2_3, C3, C4, C6_1, C6_2, C6_3, C11_1, C11_2, C11_3, C14, C18, C24, C31, C33, C61_1, C61_2, C61_3, C61_4, C62_1, C62_2, C62_3, C62_4, C63_1, C63_2, C63_3, C63_4, C64, C65, C66, C67_1, C67_2, C70_1, C70_2, C72, C73, C75, C76, C79, C80, C89, C92, C93, C94, C95, C96, C97, C98, C100, C101, C102, C103, C104, C105, C107, C110, C112, C114, C115, C124, C127, C128_1, C128_2, C128_3, C128_4, C131, C133, C134, C136, C137, C138, C139, C140, C141	76
Capacitor 0603, 1nF X7R 50V			C5_1, C5_2, C5_3, C7_1, C7_2, C7_3, C10_1, C10_2, C10_3, C12_1, C12_2, C12_3, C32, C35, C36, C56, C154_1, C154_2	18
Capacitor 0805, 4.7uF X7R 16V			C9, C16, C17, C55, C69, C74, C91, C99, C106, C111, C130, C135, C153	13
Capacitor 1206, 1uF X7R 50V			C13_1, C13_2, C52, C90_1, C90_2	5
Capacitor 0603, 10pF NP0 50V			C15, C47, C48, C85, C86, C87, C88, C129	8
Capacitor 0603, 4.7pF C0G 50V			C19, C20, C21, C22, C23, C142, C143, C144, C145, C146	10
Capacitor 0603, 330pF X7R 50V			C25, C26, C37, C38, C45, C46, C117, C118, C119, C120, C121, C122, C123, C125, C132, C155	16
Aluminum Electrolytic Capacitors 100uF 50V			C27, C28, C29, C30, C39, C40, C41, C42, C49, C50, C126_1, C126_2, C126_3, C126_4	14
Capacitor 1206, 10uF X7R 16V			C43, C44	2
Capacitor 0603, 470nF X7R 25V			C51, C59_1, C59_2, C59_3, C59_4	5
Capacitor 0603, 22nF X7R 50V			C53	1
Capacitor 0603, 4.7nF X7R 50V			C54	1
Capacitor 0805, 100nF X7R 50V			C57_1, C57_2, C57_3, C57_4, C58_1, C58_2, C58_3, C58_4	8
Capacitor 0603, 10nF X7R 50V			C60_1, C60_2, C60_3, C60_4, C113, C116, C147	7
Capacitor 0603, 220nF X7R 25V			C68_1, C68_2	2
Capacitor 0805, 1uF X7R 16V			C71, C82	2
Capacitor 0603, 22pF NP0 50V			C77, C78, C108, C109, C148, C149	6
Capacitor 0603, 15pF NP0 50V			C81, C84	2
Capacitor 0603, 470pF X7R 50V			C83	1
Capacitor 1206, 4.7nnF X7R 630V			C150, C152	2
Capacitor 1210, 47nF 630V			C151	1
3.3Vdc HCMOS/TTL SMD CRYSTAL CLOCK OSCILLATOR 50MHz	ASV-50.000MHz-EJ	Abracon	CO1	1
Surface Mount 5V TRANSZORB Transient Voltage Suppressors	SMAJ5.0A	Vishay	D1, D13, D16, D30	4
High Speed switching diode	BAS516	NXP	D2, D4, D17, D18, D19, D29	6
Double diode	BAV99	NXP	D3_1, D3_2, D3_3, D5_1, D5_2, D5_3, D20_1, D20_2	8

60 V, 1 A ultra low VF MEGA Schottky barrier rectifiers	PMEG6010CEH,115	NXP	D6_1, D6_2, D11	3
High-speed USB OTG ESD protection diode arrays	PUSBM5V5X4-TL,115	NXP	D7	1
Surface Mount 33V TRANSZORB Transient Voltage Suppressors	SMBJ33A	Vishay	D8, D9, D10, D22	4
High-temperature 400 W Transient Voltage Suppressor	PTVS3V3S1UTR,115	NXP	D14, D15, D26	3
Low capacitance TVS diode array	SR05.TCT	Semtech	D21	1
Low Capacitance Diode Array for ESD Protection in Four Data Lines	NUP4304MR6	ON Semiconductor	D23, D24, D25, D27, D28	5
LED SMD 0603 Green			DL1_1, DL1_2, DL1_3, DL2_1, DL2_2, DL2_3, DL5, DL6_1, DL6_2	9
PolySwitch Resettable Devices- Ih=0.5A It=1.0A	MINISMDC050F-2	TE CONNECTIVITY	F1	1
Generic 4 pin PCB Connector 3.81mm			J1_1, J1_2, J1_3	3
Micro-USB AB Receptacle, Right Angle, Top Mount, SMT, Lead-Free	47590-0001	Molex	J2, J7	2
Generic 2 pin PCB Connector 3.81mm			J3_1, J3_2, J10_1, J10_2	4
HEADER, 1.27MM, SMT, A 10 VIE	20021121-00010C4LF	FCI	J4	1
Adimpex Generic 3 pin PCB Connector 3.81mm			J5	1
microSD Card Connector (Push-push Type) SCHA Series	SCHA5B0200	ALPS	J6	1
4way Barrier Strip 8.26mm centerline	4DB-P108-04	TE Connectivity	J8	1
Generic 4 pin PCB Connector 5.08mm			J9_1, J9_2, J9_3, J9_4	4
RJ45 integrated magnetics connector SMD	J3011G21DNL	Pulse	J11	1
VERTICAL SMT RECEPTACLES 1.27mm 10x2		FCI	J12	1
2way Barrier Strip 8.26mm centerline	4DB-P108-02	TE Connectivity	J13_1, J13_2	2
2.54mm Pitch Surface Mount, Dual Row, Vertical, 10 Circuits	15-91-0100	Molex	J14	1
Unshrouded Header, SMT, Double Row, 26 Positions, 2.54 mm Pitch, Vertical	95278-101-26LF	FCI	J15	1
VERTICAL SMT RECEPTACLES 1.27mm 8x2		FCI	J16	1
INDUCTOR 10UH 180MA 1210 10% Epcos B82422S1103K100	B82422A1103K100	Epcos	L1, L3	2
Ferrite Beads Chip - BLM21B Series	BLM21BD272SN1L	muRata	L2_1, L2_2, L2_3, L10, L14, L15	6
Noise Suppressor Trasnformer			L4, L16	2
Low Profile, High Current Inductors 1uH			L5, L7	2
Semi-shielded Power Inductors 10uH	SRN3015-100M	Bourns	L6, L11, L12	3
Semi-shielded Power Inductors 33uH	SRN8040-330M	Bourns	L9	1
N-Channel 40 V (D-S) MOSFET	Si2318CDS-T1-GE3	Vishay	Q1_1, Q1_2	2
NPN General Pourpuse transistors	BC817	NXP	Q2	1
OptiMOS 3 Power-Transistor	IPD036N04L G	Infineon	Q3_1, Q3_2	2
Single P-Channel, Logic Level PowerTrench MOSFET	FDN340P	Fairchild Semiconductor	Q4	1
Resistor 0603, 100 Kohm 1/10W - 1%			R1, R10_1, R10_2, R10_3, R18_1, R18_2, R18_3, R23, R24, R25, R44, R92, R102, R139	14
Resistor 0603, 1 Kohm 1/10W - 1%			R2, R6_1, R6_2, R6_3, R7_1, R7_2, R7_3, R14_1, R14_2, R14_3, R15_1, R15_2, R15_3, R63_1, R63_2	15

Resistor 0603, 10 Kohm 1/10W - 1%			R3, R5_1, R5_2, R5_3, R9_1, R9_2, R9_3, R13_1, R13_2, R13_3, R17_1, R17_2, R17_3, R20_1, R20_2, R21, R22, R36, R54, R55_1, R55_2, R55_3, R55_4, R56_1, R56_2, R56_3, R56_4, R59_1, R59_2, R59_3, R59_4, R60_1, R60_2, R60_3, R60_4, R61_1, R61_2, R61_3, R61_4, R62_1, R62_2, R62_3, R62_4, R67, R126_1, R126_2, R126_3, R126_4, R127_1, R127_2, R127_3, R127_4, R128_1, R128_2, R128_3, R128_4, R138_1, R138_2, R161, R162, R165, R171	62
Resistor 0603, 10 ohm 1/10W - 1%			R4_1, R4_2, R4_3, R12_1, R12_2, R12_3, R19_1, R19_2, R137_1, R137_2	10
Resistor 0603, 470 Kohm 1/10W - 1%			R8_1, R8_2, R8_3, R16_1, R16_2, R16_3	6
Resistor 0603, 4.7 Kohm 1/10W - 1%			R11, R64_1, R64_2, R82, R83, R84, R85, R86, R96, R98, R99, R100	12
Resistor 0603, 100 ohm 1/10W - 1%			R26, R27, R28, R29, R30, R31, R32, R37, R42, R48, R77, R87, R88, R89, R90, R93, R94, R107, R163	19
Resistor 0603, 39 ohm 1/10W - 1%			R33, R34	2
Resistor 0603, 6K8 Kohm 1/10W - 1%			R35	1
Resistor 0603, 22 ohm 1/10W - 1%			R38, R39, R40, R41, R43, R66_1, R66_2, R71, R72, R125_1, R125_2, R125_3, R125_4, R154, R155, R156_1, R156_2, R156_3, R156_4, R157_1, R157_2, R157_3, R157_4, R158_1, R158_2, R158_3, R158_4	27
Resistor 0603, 47 ohm 1/10W - 1%			R45, R75, R76, R104, R105, R106, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R129, R130, R131, R132, R133, R134, R135, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R164, R166, R167, R168, R169, R174, R175, R176	52
Resistor 0603, 47 Kohm 1/10W - 1%			R46	1
Resistor 0603, 0 ohm 1/10W - 1%			R47, R97, R103, R170	4
Resistor 0603, 330 ohm 1/10W - 1%			R49_1, R49_2, R91, R95	4
Resistor 0603, 220 ohm 1/10W - 1%			R50	1
Resistor 0603, 56.2 Kohm 1/10W - 1%			R51	1
Resistor 0603, 0.68 ohm 1/10W - 1%			R52	1
Resistor 0603, 1 Mohm 1/10W - 1%			R53_1, R53_2, R53_3, R53_4	4
Power Resistor - 0.2 ohm 1% - 2512			R57_1, R57_2, R57_3, R57_4, R58_1, R58_2, R58_3, R58_4	8
Resistor 0603, 12 Kohm 1/10W - 1%			R68	1
Resistor 0603, 4.42 Kohm 1/10W - 1%			R69, R70	2
Resistor 0603, 8.2 Kohm 1/10W - 1%			R73_1, R73_2	2
Resistor 0603, 15 Kohm 1/10W - 1%			R74_1, R74_2	2
Resistor 0603, 49.9 ohm 1/10W - 1%			R78, R79, R80, R81	4
Resistor 0603, 12.1 Kohm 1/10W - 1%			R101	1

Resistor 0805, 1 Kohm 1/8W - 1%			R136_1, R136_2	2
SPDT SLIDE SWITCH			S3_1, S3_2	2
SPDT SLIDE SWITCH			S4	1
ACM7060 Common Mode Filter for power line	ACM7060-701-2PL-TL01	TDK	T1	1
Low Offset Voltage Dual Comparator	LM393DMR2G	On Semiconductor	U1_1, U1_2, U1_3	3
AT91SAM ARM Cortex M3 Flash MCU	ATSAM3X8EA-AU	Atmel	U2	1
8-Bit Micro Power QUAD Digital-to-Analog Converter with Rail-to-Rail Output	DAC084S085C1MM/NOPB	Texas Instrument	U3	1
1.0 A 3.3V - Low-Dropout Positive Fixed Voltage Regulator	NCP1117DT33G	On Semiconductor	U5	1
42V, 1.0A Step-Down Switching Regulator	LM25010MHX/NOPB	Texas Instrument	U6	1
STEPPER MOTOR CONTROLLER IC	DRV8825PWP	Texas Instrument	U7_1, U7_2, U7_3, U7_4	4
64K SPI Bus Serial EEPROM	25AA640A-I/MS	Microchip	U8	1
2K SPI Bus Serial EEPROM with EUI-48 Node Identity	25AA02E48T-I/OT	Microchip	U9	1
32 Mbit SPI Serial Flash	SST25VF032B-80-4I-S2AF	SST	U10	1
Low-Offset, Rail-to-Rail I/O Operational Amplifier	OPA2317ID	Texas Instrument	U12_1, U12_2	2
3.3V Single Power Supply, 10/100 Physical Layer Transceiver	LAN8720Ai-CP	SMSC	U13	1
NPN/PNP transistor pair connected as push-pull driver	PMD2001D,115	NXP	U14_1, U14_2	2
Single Channel Hi-Speed USB to multipurpose UART/FIFO IC	FT232HL	FTDI	U15	1
Dual 4-channel analog multiplexer/demultiplexer	CD4052BPWR	Texas Instrument	U16	1
12MHz ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL	ABM8G-12.000MHZ-18-D2Y-T	Abracon	Y1, Y2	2