## 7Y May 128 iccup 5

ZX Max 128 issue 5			
Designator	Value	Digikey Part Number	Quantity
C1, C4, C26	10uF	P19522CT-ND	3
C5	22uF	P15791CT-ND	1
C6, C7 C8, C27	27pF 220uF	445-173185-1-ND	2
C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C25, C28, C29, C30	0.1uF	1189-1546-1-ND BC1160CT-ND	19
C24	10pF	BC1001CT-ND	1
C31	10nF	445-175393-1-ND	1
C32	3.3nF		1
C33	3.3nF	BC1075TR-ND DNP	1
D1, D2, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20	1N4148	1N4148FS-ND	17
D28	DF02M	DF02MDI-ND	1
J1	RCPT 8	5-520315-8-ND	1
J2	RCPT 5	A105063-ND	1
J4	DC JACK	CP-002A-ND	1
J6	Audio Jack	CP1-3525N-ND	1
J8	M-DIN 9-R	MMDGX-9S-BS-1	1
J9	Header 5X2	10129381-910002BLF-ND	1
117	Header 2	952-2262-ND	1
Q1	BC548	BC548BTACT-ND	1
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R27, R28, R29, R54, R78	470	CF14JT470RCT-ND	27
R23, R24, R25, R26, R46, R47, R48, R49, R50, R55, R56, R73, R75, R77, R79	10K	CF14JT10K0CT-ND	15
R30, R31, R32, R33	75	CF14JT75R0CT-ND	4
R34	2.7K	DNP	1
R35, R36, R37, R38, R39	68	CF14JT68R0CT-ND	5
R40, R41, R42, R43, R44, R45	150	CF14JT150RCT-ND	6
R51	1M	CF14JT1M00CT-ND	1
R52, R86, R87, R88, R89	1K	CF14JT1K00CT-ND	17
R53	4K7	DNP	1
R71	33K	CF14JT33K0CT-ND	1
R72, R74	150K	CF14JT150KCT-ND	2
R76	470K	CF14JT470KCT-ND	1
RN1	10K*8	4609X-101-103LF-ND	1
U1	Z80-CPU	269-3892-ND	1
U2	27C256	27C256	1
U3, U4	HM628128 or AS6C1008	AS6C1008-55PCN	2
US	EPM7128S/LCC	EBAY	1
U6	74HC04 or 74HCU04	296-1566-5-ND or 296-9820-5-ND	1
U7	74HC174	296-1579-5-ND	1
U13	AD724JR	AD724JRZ-ND	1
			1
U14	R-78E5.0	945-2201-ND	1
U14 Y1			
	R-78E5.0	945-2201-ND	1
Y1	R-78E5.0 28.375MHz	945-2201-ND 449-LFXTAL024588BULK (mouser.com)	1
Y1 Y2 Turbo Sound	R-78E5.0 28.375MHz 4.433MHz	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND Digikey Part Number	1 1 1 Quantity
Y1 Y2  Turbo Sound C2, C3	R-78E5.0 28.375MHz 4.433MHz Value	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND Digikey Part Number P19522CT-ND	1 1 1 Quantity
Y1 Y2  Turbo Sound C2, C3 D4, D5	R-78E5.0 28.375MHz 4.433MHz Value 10uF 1N4148	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND	1 1 1 Quantity 2
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5	R-78E5.0 28.375MHz 4.433MHz Value 10uF 1N4148 Audio Jack	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay)	1 1 1 Quantity 2 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58	R-78E5.0 28.375MHz 4.433MHz Value 10uF 1N4148 Audio Jack 470	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND	1 1 1 Quantity 2 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82	R-78E5.0 28.375MHz 4.433MHz Value 10uF 1N4148 Audio Jack 470	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP	1 1 1 Quantity 2 1 1 2
Y1 Y2  Turbo Sound C2, C3 D4, D5 I5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 1K	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND	1 1 1 Quantity 2 1 1 2 2 8
Y1 Y2  Turbo Sound C2, C3 D4, D5 I5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND	1 1 1 2 1 1 2 2 2 8
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT1K00CT-ND EBAY	1 1 1 2 1 2 2 2 8 4
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND	1 1 1 Quantity 2 1 1 2 2 8 4 2
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R89, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND	1 1 1 2 1 2 2 8 4 2 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND	1 1 1 Quantity 2 1 1 2 2 8 4 2
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 1K 2.2K AY-3-8910 74HC74 ESP8266-12E	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148F5-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT1K2COT-ND EBAY 296-9196-5-ND DNP DNP	1 1 1 2 1 2 2 8 4 2 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U11 U15  Kempston Joystick	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND DNP D96-1602-5-ND DNP Digikey Part Number	1 1 1 1 2 2 8 4 2 1 1 1 0 Quantity
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 11K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value  1N4148	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2C0CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND	1 1 1 1  Quantity 2 1 1 2 2 8 4 2 1 1 1 1 Quantity 7
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value  1N4148 DB9 MALE	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND	1 1 1 1 1 1  Quantity 2 1 1 2 2 8 4 2 1 1 1 1 1 Cuantity 7
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R89, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value  1N4148 DB9 MALE Header 2	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP	1 1 1 1 1 1  Quantity 2 1 1 2 2 8 4 2 1 1 1 1 0 Quantity 7 1 2
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148F5-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND	1 1 1 1 1 1 1 1 1 2 2 8 4 2 1 1 1 1 0 Quantity 7 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R89, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value  1N4148 DB9 MALE Header 2	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148F5-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP Digikey Part Number 1N4148F5-ND AE10970-ND DNP CF14JT10K0CT-ND 4606X-101-103LF	1 1 1 1 1 1  Quantity 2 1 1 2 2 8 4 2 1 1 1 1 0 Quantity 7 1 2
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148F5-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND	1 1 1 1 1 1 2 2 8 4 2 1 1 1 1 0 Quantity 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148F5-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP Digikey Part Number 1N4148F5-ND AE10970-ND DNP CF14JT10K0CT-ND 4606X-101-103LF	1 1 1 1 1 1 2 2 8 4 2 1 1 1 1 0 Quantity 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2 U12	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 11K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value  1N4148 DB9 MALE Header 2 10K 10K*5 74HC366	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND CF14JT10K0CT-ND CF14JT10K0T-ND DNP  DIGIKEY PART NUMBER 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND 4606X-101-103LF Hex Bus Driver with 3-State Outputs	1 1 1 1 1 1 1  Quantity 2 1 1 2 2 8 4 2 1 1 1 1 1  Quantity 7 1 2 1 1 1 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2 U12 DivMMC	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value  1N4148 DB9 MALE Header 2 10K 10K*5 74HC366	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND CF14JT2K20CT-ND LORD LORD LORD LORD LORD LORD LORD LOR	1 1 1 1 1 1 1 1  Quantity 2 1 1 2 2 8 4 2 1 1 1 1 1  Quantity 7 1 2 1 1 1 Quantity 7 1 Quantity 7 1 Quantity 7 1 Quantity 1 Quantity
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R859, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2 U12  DivMMC C34, C35, C36, C37, C38, C39	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value 0.1uF	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND CF14JT2K20CT-ND EBAY 296-11602-5-ND DNP Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND 4606X-101-103LF Hex Bus Driver with 3-State Outputs  Digikey Part Number BC1160CT-ND	1 1 1 1 1 1 1 1 1  Quantity 2 1 1 1 2 2 8 4 2 1 1 1 1 1  Quantity 7 1 2 1 1 1 1 Quantity 7 1 2 1 1 1 1 0 Quantity 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Y1 Y2  Turbo Sound  C2, C3 D4, D5 J5 R57, R58 R81, R82 R82, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J7 J10, J11 R80 RN2 RN2 U12 DiwMMC C34, C35, C36, C37, C38, C39 C40, C41	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value 0.1uF	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148F5-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT1K0CT-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148F5-ND AE10970-ND DNP  CF14JT10K0CT-ND DNP  Digikey Part Number 1N4148F5-ND AE10970-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND HEX Bus Driver with 3-State Outputs Digikey Part Number BC1160CT-ND P19522CT-ND	1 1 1 1 1 1 1 1 1 1 1 1 2 2 8 4 2 1 1 1 1 1  Quantity 7 1 2 1 1 1 Quantity 6 2
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2 U12 DivMMC C34, C35, C36, C37, C38, C39 C40, C41 J12	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value 0.1uF 10uF Header 5X2	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148F5-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP  CF14JT10K0CT-ND END DIGIKEY PART Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND 4606X-101-103LF Hex Bus Driver with 3-State Outputs  Digikey Part Number BC1160CT-ND P19522CT-ND	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 8 4 2 1 1 1 1 1 1  Quantity 7 1 2 1 1 1 1 1 Quantity 6 2 1
Y1 Y2  Turbo Sound  C2, C3  D4, D5  J5  R57, R58  R81, R82  R85, R62, R63, R64, R65, R68, R69, R70  R60, R61, R66, R67  U8, U9  U10  U11  U15  Kempston Joystick  D21, D22, D23, D24, D25, D26, D27  J7  J10, J11  R80  RN2  U12  DivMMC  C34, C35, C36, C37, C38, C39  C40, C41  J12  J13	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 11K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value  10uF Header 5X2 SD Socket	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP  DIGHOT-ND DNP  DIGHOT-ND DNP  DIGHOT-ND DNP  DIGHOT-ND DNP  DIGHOT-ND DNP CF14JT10K0CT-ND DNP DNP DIGHOT-ND DNP DNP DIGHOT-ND DNP CF14JT10K0CT-ND DNP DIGHOT-ND DNP DIGHOT-ND DNP DIGHOT-ND	1 1 1 1 1 1 1 1  Quantity 2 1 1 1 2 2 8 4 2 1 1 1 1 1  Quantity 7 1 1 2 1 1 1 1 Quantity 6 2 1 1 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2 U12  DiwMMC C34, C35, C36, C37, C38, C39 C40, C41 J12 J13 J14	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value 0.1uF 10uF Header 5X2 SD Socket MicroSD Socket	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND CF14JT10K0CT-ND CF14JT10K0T-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND 4606X-101-103LF Hex Bus Driver with 3-State Outputs Digikey Part Number BC1160CT-ND P19522CT-ND 10129381-910002BLF-ND 101-00708-64-ND DNP	1 1 1 1 1 1 1 1 1 1 1  Quantity 2 1 1 1 2 2 8 4 2 1 1 1 1 1  Quantity 7 1 1 2 1 1 1 1 Quantity 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 I5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2 U12  DivMMC C34, C35, C36, C37, C38, C39 C40, C41 J13 J14 J15 J16 P81, P82	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value 0.1uF 10uF Header 5X2 SD Socket MicroSD Socket Header 3X2 Header 2 SWITCH TACTILE SPST-NO	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148F5-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT1K0CT-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148F5-ND AE10970-ND DNP  CF14JT10K0CT-ND DNP  Digikey Part Number 1N4148F5-ND AE10970-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND 10129381-910002BLF-ND 101-00708-64-ND DNP DNP DNP DNP DNP 952-2262-ND 450-1661-ND	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 8 8 4 2 1 1 1 1 1 1  Quantity 7 1 2 1 1 1 1 1 1 Quantity 6 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 2
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R59, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2 U12 U15 DivMMC C34, C35, C36, C37, C38, C39 C40, C41 J12 J13 J14 J15 J16	R-78E5.0 28.375MHz 4.433MHz  Value 10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value 0.1uF 10uF Header 5X2 SD Socket MicroSD Socket MicroSD Socket Header 2	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT2K20CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND CF14JT10K0CT-ND DNP Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND 4606X-101-103LF Hex Bus Driver with 3-State Outputs  Digikey Part Number BC1160CT-ND P19522CT-ND 10129381-910002BLF-ND 101-00708-64-ND DNP DNP DNP DNP DNP DNP	1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 8 4 2 1 1 1 1 1  Quantity 7 1 2 1 1 1 1 1 Quantity 6 2 1 1 1 1 1 1 1 1 1 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R85, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 R80 RN2 U12 DivMMC C34, C35, C36, C37, C38, C39 C40, C41 J12 J13 J14 J15 J16 P81, P82 Q2 R83, R84, R85	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 11K 2.2K AY-3-8910 74HC30 74HC30 74HC74 ESP8266-12E  Value  1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value 0.1uF 10uF Header 5X2 SD Socket MicroSD Socket Header 3X2 Header 2 SWITCH TACTILE SPST-NO BC548 10K	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148F5-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND CF14JT1K0CT-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148F5-ND AE10970-ND DNP  CF14JT10K0CT-ND DNP  Digikey Part Number 1N4148F5-ND AE10970-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND DNP CF14JT10K0CT-ND 10129381-910002BLF-ND 101-00708-64-ND DNP DNP DNP DNP DNP 952-2262-ND 450-1661-ND	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 8 8 4 2 1 1 1 1 1 1  Quantity 7 1 2 1 1 1 1 1 1 Quantity 6 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 2
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R85, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2 U12 DivMMC C34, C35, C36, C37, C38, C39 C40, C41 J12 J13 J14 J15 J16 J17 J18 J18 J19	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 1K 2.2K AY-3-8910 74HC30 74HC74 ESP8266-12E  Value 1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value 10uF Header 5X2 SD Socket MicroSD Socket Header 2 SWITCH TACTILE SPST-NO BC548	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT10K0CT-ND 4606X-101-103LF Hex Bus Driver with 3-State Outputs  Digikey Part Number BC1160CT-ND 10129381-910002BLF-ND 101-00708-64-ND DNP DNP DNP DNP 952-22262-ND 450-1661-ND BC548BTACT-ND	1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 8 8 4 2 1 1 1 1 1 1 1  Quantity 7 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Y1 Y2  Turbo Sound C2, C3 D4, D5 J5 R57, R58 R81, R82 R85, R62, R63, R64, R65, R68, R69, R70 R60, R61, R66, R67 U8, U9 U10 U11 U15  Kempston Joystick D21, D22, D23, D24, D25, D26, D27 J7 J10, J11 R80 RN2 U12 DivMMC C34, C35, C36, C37, C38, C39 C40, C41 J12 J13 J14 J15 J16 P81, P82 Q2 R83, R84, R85	R-78E5.0 28.375MHz 4.433MHz  Value  10uF 1N4148 Audio Jack 470 470 11K 2.2K AY-3-8910 74HC30 74HC30 74HC74 ESP8266-12E  Value  1N4148 DB9 MALE Header 2 10K 10K*5 74HC366  Value 0.1uF 10uF Header 5X2 SD Socket MicroSD Socket Header 3X2 Header 2 SWITCH TACTILE SPST-NO BC548 10K	945-2201-ND 449-LFXTAL024588BULK (mouser.com) 1923-1420-ND  Digikey Part Number P19522CT-ND 1N4148FS-ND PJ-322 (ebay) CF14JT470RCT-ND DNP CF14JT1K00CT-ND EBAY 296-9196-5-ND 296-1602-5-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP  CF14JT1K0CT-ND CF14JT1K0CT-ND CF14JT1K0CT-ND DNP  Digikey Part Number 1N4148FS-ND AE10970-ND DNP CF14JT1K0CT-ND DNP CF14JT1K0CT-ND Hex Bus Driver with 3-State Outputs Digikey Part Number BC1160CT-ND P19522CT-ND 101-29381-910002BLF-ND 101-00708-64-ND DNP DNP 952-2262-ND 450-1661-ND BC548BTACT-ND CF14JT10K0CT-ND BC548BTACT-ND CF14JT10K0CT-ND	1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 8 8 4 2 1 1 1 1 1 1 1 Quantity 7 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1

Designator	Value	Digikey Part Number	Quantity
J16	EPM7128S/LCC	EBAY	1
J17	28C64	AT28C64B-15PU-ND	1
J18	HM628128 or AS6C1008	AS6C1008-55PCN	1
U19	AZ1117IH-3.3TRG1	AZ1117IH-3.3TRG1DICT-ND	1
SAA1099	Value	Digikey Part Number	Quantity
C42, C50, C51, C52	0.1uF	BC1160CT-ND	4
C44, C45, C46, C47	10nF	445-175393-1-ND	4
C48, C49	10uF	P19522CT-ND	2
C43	22uF	P15791CT-ND	1
1	Inductor 220uH 200mA	RLB0608-221KL-ND	1
R94, R95, R98, 99	1K	CF14JT1K00CT-ND	4
R96, R97, R100, R103	10K	CF14JT10K0CT-ND	4
R101, R104, R108, R109	24K	CF14JT24K0CT-ND	4
R102, R105	2.2K	CF14JT2K20CT-ND	2
1106	47K	CF14JT47K0CT-ND	1
2107	27K	CF14JT27K0CT-ND	1
J20	74HC30	8-Input Positive-NAND Gate	1
J21	74HC32	296-1589-5-ND	1
J22	SAA1099	EBAY	1
J23	MCP602-I/P	MCP602-I/P-ND	1
73	OSC 8MHz	ECS-2100A-080	1
Лidi	Value	Digikey Part Number	Quantity
C53, C62, C63, C64	10uF	P19522CT-ND	4
C54, C55, C56, C59	0.1uF	BC1160CT-ND	4
C60, C61	22pF	BC5146-ND	2
C57, C58	100uF	732-8598-1-ND	2
C65	1uF	732-8966-3-ND	1
2	Inductor 220uH 200mA	RLB0608-221KL-ND	1
110, R111	47K	CF14JT47K0CT-ND	3
1112	10K	CF14JT10K0CT-ND	1
J24	SAM2695	EBAY	1
J25	AZ1117IH-3.3TRG1	AZ1117IH-3.3TRG1DICT-ND	1
74	Crystal 12MHz	2151-AS-12.000-20-ND	1
Y4x (If use Y4x, don't install Y4, C60, C61)	OSC 12MHz	XC1958CT-ND	1