100n	Comment	Designator	Footprint	LCSC	Quantity	Notes
5k1 R1 Resistor_SMD:R_0805_2012MetricValue C27834 3k6 R2 Resistor_SMD:R_0805_2012MetricValue C18359 3k R3 Resistor_SMD:R_0805_2012MetricValue C17661 100k R4,R5,R6,R7,R12,R13,R14, Resistor_SMD:R_0805_2012MetricValue C17407 R15 R15 Resistor_SMD:R_0805_2012MetricValue C17621 TL431DBZ U1 Package_TO_SOT_SMD:SOT-23 C23892 MCP6004 U2 Package_SO:SOIC-14_3.9x8.7mm_P1.27mm C7378 LD1117533TR U4 Package_TO_SOT_SMD:SOT-223-3_TabPin2 C35879 Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn 4 Thonkiconn 3.5mm mono jack SW_Push SW1,SW2,SW3,SW4,SW5 Button_Switch_THT:SW_PUSH_6mm 5 6mm push switch 10u C1,C7,C8 Capacitor_THT:CP_Radial_D5.0mm_P2.50mm 3 Power filtering capacitor - solder on rear of board 1x5817 D1,D2 Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal 2 Reverse connection protection diodes - solder on rear of board 2x5 Pin Header J1 Connector_IDC:IDC-Header_2x05_P2.54mm_Vertical 1 STM32F103C8T6 B	100n	C2.C9	Capacitor SMD:C 0805 2012MetricVal	C49678		
3k6 R2 Resistor_SMD:R_0805_2012MetricValue C18359 3k R3 Resistor_SMD:R_0805_2012MetricValue C17661 100k R4,R5,R6,R7,R12,R13,R14, Resistor_SMD:R_0805_2012MetricValue C17407 30k R8,R9,R16,R17 Resistor_SMD:R_0805_2012MetricValue C17621 TL431DBZ U1 Package_TO_SOT_SMD:SOT-23 C23892 MCP6004 U2 Package_TO_SOT_SMD:SOT-23-3_TabPin2 C35879 Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn C35879 Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn 5 6mm push switch 10u C1,C7,C8 Capacitor_THT:CP_Radial_D5.0mm_P2.50mm 5 6mm push switch 10u C1,C7,C8 Capacitor_THT:CP_Radial_D5.0mm_P2.50mm 3 Power filtering capacitor - solder on rear of board 1NS817 D1,D2 Diode_THT:D_D0-41_SOD81_P10.16mm_Horizortal 2 Reverse connection protection diodes - solder on rear of board YAAJ_BluePill U3 kicad_libraries:YAAJ_BluePill_2 1 STM32F103C8T6 Blue Pill board 2 Pin Header Sockets for Blue Pill - solder on rear of board OLED J2	5k1	•		C27834		
100k R4,R5,R6,R7,R12,R13,R14, Resistor_SMD:R_0805_2012MetricValue C17407 R15 30k R8,R9,R16,R17 Resistor_SMD:R_0805_2012MetricValue C17621 TL431DBZ U1 Package_TO_SOT_SMD:SOT-23 C23892 MCP6004 U2 Package_TO_SOT_SMD:SOT-223-3_TabPin2 C35879 Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn	3k6	R2		C18359		
R15 30k R8,R9,R16,R17 Resistor_SMD:R_0805_2012MetricValue C17621 TL431DBZ U1 Package_TO_SOT_SMD:SOT-23 C23892 MCP6004 U2 Package_SO:SOIC-14_3.y88.7mm_p1.27mm C7378 LD117533TR U4 Package_TO_SOT_SMD:SOT-223-3_TabPin2 C35879 Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn	3k	R3	Resistor_SMD:R_0805_2012MetricValue	C17661		
30k R8,R9,R16,R17 Resistor_SMD:R_0805_2012MetricValue C17621 TL431DBZ U1 Package_TO_SOT_SMD:SOT-23 C23892 MCP6004 U2 Package_SO:SOIC-14_3.9x8.7mm_P1.27mm C7378 LD1117S33TR U4 Package_TO_SOT_SMD:SOT-223-3_TabPin2 C35879 Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn	100k	R4,R5,R6,R7,R12,R13,R14,	Resistor_SMD:R_0805_2012MetricValue	C17407		
TL431DBZ U1 Package_TO_SOT_SMD:SOT-23 C23892 MCP6004 U2 Package_SO:SOIC-14_3.9x8.7mm_P1.27mm C7378 LD1117S33TR U4 Package_TO_SOT_SMD:SOT-223-3_TabPin2 C35879 Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn		R15				
MCP6004 U2 Package_SO:SOIC-14_3.9x8.7mm_P1.27mm C7378 LD1117S33TR U4 Package_TO_SOT_SMD:SOT-223-3_TabPin2 C35879 Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn	30k	R8,R9,R16,R17	Resistor_SMD:R_0805_2012MetricValue	C17621		
LD1117S33TR U4 Package_TO_SOT_SMD:SOT-223-3_TabPin2 C35879 Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn	TL431DBZ	U1	Package_TO_SOT_SMD:SOT-23	C23892		
Thonkiconn 3.5mm mono jack CH1,CH2,CH3,CH4 kicad_libraries:Thonkiconn SW_Push SW1,SW2,SW3,SW4,SW5 Button_Switch_THT:SW_PUSH_6mm 5 6mm push switch 10u C1,C7,C8 Capacitor_THT:CP_Radial_D5.0mm_P2.50mm 3 Power filtering capacitor - solder on rear of board 1N5817 D1,D2 Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal 2x5 Pin Header J1 Connector_IDC:IDC-Header_2x05_P2.54mm_Vertical 1 Power YAAJ_BluePill U3 kicad_libraries:YAAJ_BluePill_2 1 STM32F103C8T6 Blue Pill board 1x20 Pin Header Socket 2 Pin Header Sockets for Blue Pill - solder on rear of board 0LED SQ Pin Header Sockets for Blue Pill - solder on rear of board 1 128x128 SPI RGB OLED Screen based on SSD1351 To insulate rear of OLED screen M3x12 Bolt 5 6mm push switch 4 Thonkiconn 3.5mm mono jack 5 6mm push switch 5 6mm push sw	MCP6004	U2	Package_SO:SOIC-14_3.9x8.7mm_P1.27mm	C7378		
SW_Push SW1,SW2,SW3,SW4,SW5 Button_Switch_THT:SW_PUSH_6mm 5 6mm push switch 10u C1,C7,C8 Capacitor_THT:CP_Radial_D5.0mm_P2.50mm 3 Power filtering capacitor - solder on rear of board 1N5817 D1,D2 Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal 2 Reverse connection protection diodes - solder on rear of board 2x5 Pin Header J1 Connector_IDC:IDC-Header_2x05_P2.54mm_Vertical 1 Power YAAJ_BluePill U3 kicad_libraries:YAAJ_BluePill_2 1 STM32F103C8T6 Blue Pill board 1x20 Pin Header Socket 2 Pin Header Sockets for Blue Pill - solder on rear of board OLED J2 Connector_PinHeader_2.54mm:PinHeader_1x07_P2.54mm_Vertical 1 128x128 SPI RGB OLED Screen based on SSD1351 Kapton tape M3x12 Bolt 2 Black plastic is best. For OLED screen standoff	LD1117S33TR	U4	Package_TO_SOT_SMD:SOT-223-3_TabPin2	C35879		
SW_Push SW1,SW2,SW3,SW4,SW5 Button_Switch_THT:SW_PUSH_6mm 5 6mm push switch 10u C1,C7,C8 Capacitor_THT:CP_Radial_D5.0mm_P2.50mm 3 Power filtering capacitor - solder on rear of board 1N5817 D1,D2 Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal 2 Reverse connection protection diodes - solder on rear of board 2x5 Pin Header J1 Connector_IDC:IDC-Header_2x05_P2.54mm_Vertical 1 Power YAAJ_BluePill U3 kicad_libraries:YAAJ_BluePill_2 1 STM32F103C8T6 Blue Pill board 1x20 Pin Header Socket 2 Pin Header Sockets for Blue Pill - solder on rear of board OLED J2 Connector_PinHeader_2.54mm:PinHeader_1x07_P2.54mm_Vertical 1 128x128 SPI RGB OLED Screen based on SSD1351 Kapton tape M3x12 Bolt 2 Black plastic is best. For OLED screen standoff	Thonkiconn 3 5mm mono iack	CH1 CH2 CH3 CH4	kicad libraries Thonkiconn			4 Thonkiconn 3 5mm mono jack
10u C1,C7,C8 Capacitor_THT:CP_Radial_D5.0mm_P2.50mm 3 Power filtering capacitor - solder on rear of board 1N5817 D1,D2 Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal 2 Reverse connection protection diodes - solder on rear of board 2x5 Pin Header J1 Connector_IDC:IDC-Header_2x05_P2.54mm_Vertical 1 Power YAAJ_BluePill U3 kicad_libraries:YAAJ_BluePill_2 1 STM32F103C8T6 Blue Pill board 2 Pin Header Socket 2 Pin Header Sockets for Blue Pill - solder on rear of board OLED J2 Connector_PinHeader_2.54mm:PinHeader_1x07_P2.54mm_Vertical 1 128x128 SPI RGB OLED Screen based on SSD1351 To insulate rear of OLED screen M3x12 Bolt 2 Black plastic is best. For OLED screen standoff	•		_			•
1N5817 D1,D2 Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal 2 Reverse connection protection diodes - solder on rear of board 2x5 Pin Header J1 Connector_IDC:IDC-Header_2x05_P2.54mm_Vertical 1 Power YAAJ_BluePill U3 kicad_libraries:YAAJ_BluePill_2 1 STM32F103C8T6 Blue Pill board 2 Pin Header Sockets for Blue Pill - solder on rear of board OLED J2 Connector_PinHeader_2.54mm:PinHeader_1x07_P2.54mm_Vertical 1 128x128 SPI RGB OLED Screen based on SSD1351 To insulate rear of OLED screen M3x12 Bolt 2 Black plastic is best. For OLED screen standoff	_			n		•
2x5 Pin Header J1 Connector_IDC:IDC-Header_2x05_P2.54mm_Vertical 1 Power YAAJ_BluePill U3 kicad_libraries:YAAJ_BluePill_2 1 STM32F103C8T6 Blue Pill board 1 x20 Pin Header Socket 2 Pin Header Sockets for Blue Pill - solder on rear of board OLED J2 Connector_PinHeader_2.54mm:PinHeader_1x07_P2.54mm_Vertical 1 128x128 SPI RGB OLED Screen based on SSD1351 Kapton tape M3x12 Bolt 2 Black plastic is best. For OLED screen standoff			. – – – –			5 .
YAAJ_BluePill U3 kicad_libraries:YAAJ_BluePill_2 1 STM32F103C8T6 Blue Pill board 1x20 Pin Header Socket 2 Pin Header Sockets for Blue Pill - solder on rear of board OLED J2 Connector_PinHeader_2.54mm:PinHeader_1x07_P2.54mm_Vertical 1 128x128 SPI RGB OLED Screen based on SSD1351 Kapton tape M3x12 Bolt 2 Black plastic is best. For OLED screen standoff	2x5 Pin Header	•				·
1x20 Pin Header Socket OLED J2 Connector_PinHeader_2.54mm:PinHeader_1x07_P2.54mm_Vertical Kapton tape M3x12 Bolt Z Pin Header Sockets for Blue Pill - solder on rear of board 1 128x128 SPI RGB OLED Screen based on SSD1351 To insulate rear of OLED screen 2 Black plastic is best. For OLED screen standoff	YAAJ BluePill	U3				1 STM32F103C8T6 Blue Pill board
Kapton tape To insulate rear of OLED screen M3x12 Bolt 2 Black plastic is best. For OLED screen standoff	-					2 Pin Header Sockets for Blue Pill - solder on rear of board
M3x12 Bolt 2 Black plastic is best. For OLED screen standoff	OLED	J2	Connector_PinHeader_2.54mm:PinHeader_1x	k07_P2.54mm_Vertical		1 128x128 SPI RGB OLED Screen based on SSD1351
· ·	Kapton tape					To insulate rear of OLED screen
M3 Nut 4 Black plastic is best. For OLED screen standoff	M3x12 Bolt					2 Black plastic is best. For OLED screen standoff
	M3 Nut					4 Black plastic is best. For OLED screen standoff