

Appearance

- Board Body
- F.Cu
- B.Cu
- Adhesive
- Solder Paste
- F.Silkscreen
- B.Silkscreen
- F.Mask
- B.Mask
- User.Drawings
- User.Comments
- User.Eco1
- User.Eco2
- Through-hole Models
- SMD Models
- Virtual Models
- Models not in POS File
- Models marked DNP
- Model Bounding Boxes
- Values
- References
- Footprint Text
- Off-board Silkscreen
- 3D Axis
- Background Start
- Background End

- Use board stackup colors
 Use board editor copper c

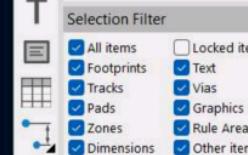
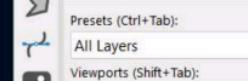
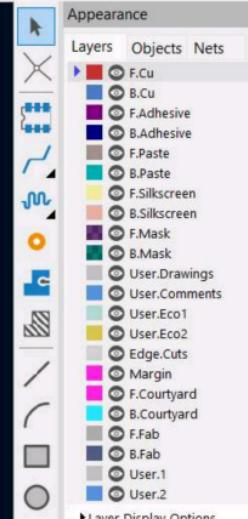
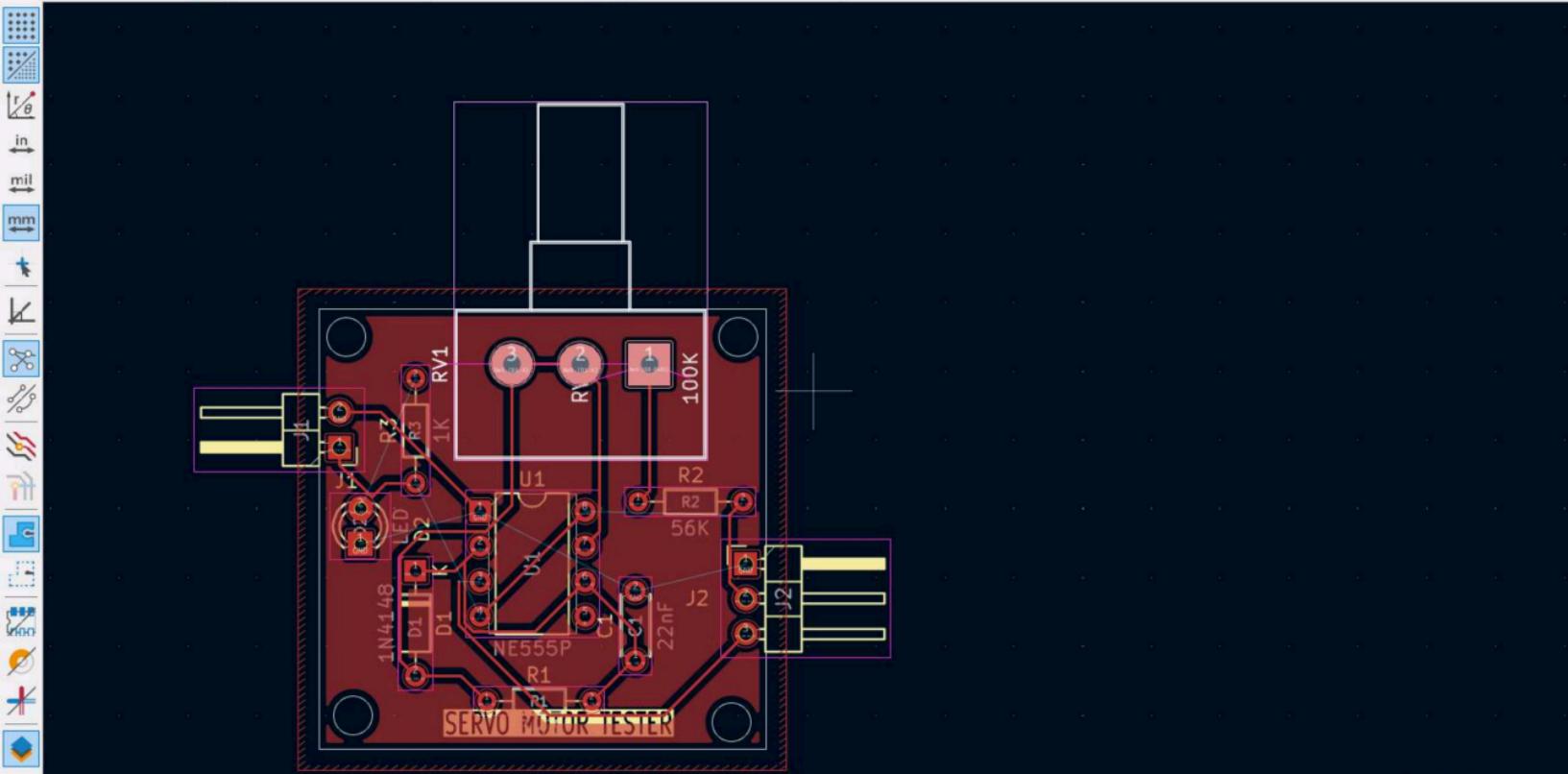
Presets (Ctrl+Tab):

Viewports (Shift+Tab):





Track: use netclass width Via: use netclass sizes F.Cu (PgUp) 0.5000 mm (19.69 mils) Zoom 3.50



RV1 Board Side Status: Rotation Component Class

Front Attributes: -90 <None>

Footprint: Potentiometer_THT:Potentiometer_Alps_RK163_Single_Horizontal

3D-Shape: \${KICAD9_3DMODEL_DIR}/Potentiometer_THT.3dshapes/Potentiometer_Alps_RK163_Single_Horizontal.wrl

File 'C:\Users\megha\OneDrive\Documents\KiCad9.0\Servo motor tester_autosave... Z 3.99

X 130.5000 Y 41.5000

dx 130.5000 dy 41.5000 dist 136.9398

grid

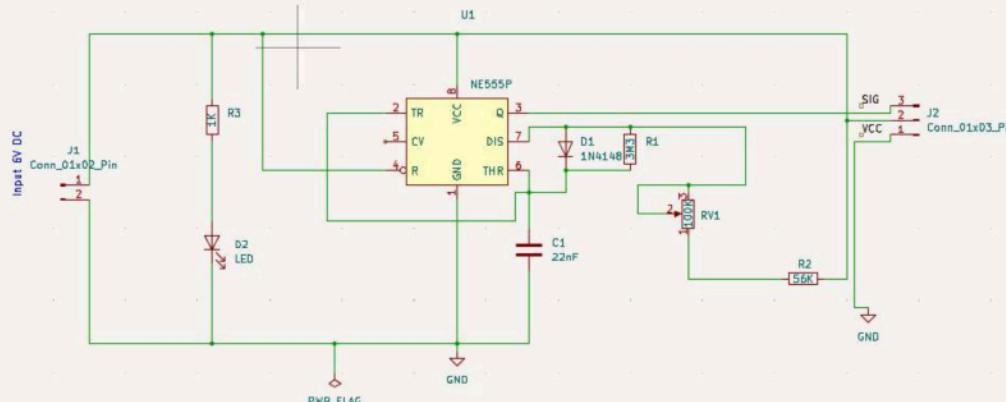
0.5000

Doc: 1110U1Q 1110TNP 1110U2A 1110UQ Potentiometer, horizontal, Alps RK163 S

Keywords: Potentiometer horizontal Alps RK163 Single

mm

Select item(s)



DASIREDDY MEGHANA , ECE Department (Kalasalingam University)

Sheet: /

File: Servo motor tester.kicad_sch

Page: 11 Date: 2025-05-11

KiCad EDA 9.0

Rev: 1

Footprint Filters:

Symbol : Footprint Assignments		
1	C1 -	22nF : Capacitor_THT:C_Disc_D4.3mm_W1.9mm_P5.00mm
2	D1 -	IN4148 : Diode_THT:D_D0-35_SOD27_P7.62mm_Horizontal
3	D2 -	LED : LED_THT:LED_D3.0mm
4	J1 -	Conn_01x02_Pin : Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Horizontal
5	J2 -	Conn_01x03_Pin : Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Horizontal
6	R1 -	3M3 : Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal
7	R2 -	56K : Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal
8	R3 -	1K : Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P7.62mm_Horizontal
9	RV1 -	100K : Potentiometer_THT:Potentiometer_Alps_RK163_Single_Horizontal
10	U1 -	NE555P : Package_DIP:DIP-8_W7.62mm

Footprint Libraries

- Package_LCC
- Package_LGA
- Package_QFP
- Package_SIP
- Package_SO
- Package SON
- Package_SO_J-Lead
- Package_TO_SOT_SMD
- Package_TO_SOT_THT
- Potentiometer_SMD
- Potentiometer_THT
- Relay_SMD
- Relay_THT
- Resistor_SMD
- Resistor_THT
- RF
- RF_Antenna
- RF_Converter
- RF_GFS
- RF_GSM
- RF_Mini_Circuits
- RF_Module
- RF_Shielding
- RF_WiFi
- Rotary_Encoder
- Sensor
- Sensor_Audio
- Sensor_Current
- Sensor_Distance
- Sensor_Humidity
- Sensor_Motion
- Sensor_Pressure
- Sensor_Voltage
- Socket
- Symbol
- TerminalBlock
- TerminalBlock_4Pin

Filtered Footprints

- Potentiometer_THT:Potentiometer_ACP_CA6-H2_5_I
- Potentiometer_THT:Potentiometer_ACP_CA9-H2_5_I
- Potentiometer_THT:Potentiometer_ACP_CA9-H3_8_I
- Potentiometer_THT:Potentiometer_ACP_CA9-H5_HoI
- Potentiometer_THT:Potentiometer_ACP_CAS-V10_VeI
- Potentiometer_THT:Potentiometer_ACP_CA9-V10_VeI
- Potentiometer_THT:Potentiometer_ACP_CAI4-H2_5_I
- Potentiometer_THT:Potentiometer_ACP_CAI4-H4_HcI
- Potentiometer_THT:Potentiometer_ACP_CAI4-H5_HcI
- Potentiometer_THT:Potentiometer_ACP_CAI4V-15_I
- Potentiometer_THT:Potentiometer_ACP_CAI4V-15_I
- Potentiometer_THT:Potentiometer_Alpha_RD901F-I
- Potentiometer_THT:Potentiometer_Alpha_RD901F-I
- Potentiometer_THT:Potentiometer_Alpha_RD902F-I
- Potentiometer_THT:Potentiometer_Alpha_RD902F-I
- Potentiometer_THT:Potentiometer_Alps_RK09K_SiI
- Potentiometer_THT:Potentiometer_Alps_RK09K_SiI
- Potentiometer_THT:Potentiometer_Alps_RK09L_Doi
- Potentiometer_THT:Potentiometer_Alps_RK09L_Doi
- Potentiometer_THT:Potentiometer_Alps_RK09L_SiI
- Potentiometer_THT:Potentiometer_Alps_RK09L_SiI
- Potentiometer_THT:Potentiometer_Alps_RK09Y11_I
- Potentiometer_THT:Potentiometer_Alps_RK097_Dui
- Potentiometer_THT:Potentiometer_Alps_RK097_Dui
- Potentiometer_THT:Potentiometer_Alps_RK097_SiI
- Potentiometer_THT:Potentiometer_Alps_RK163_SiI
- Potentiometer_THT:Potentiometer_Alps_RK163_SiI
- Potentiometer_THT:Potentiometer_Bourns_20P_HoI
- Potentiometer_THT:Potentiometer_Bourns_3005_HcI
- Potentiometer_THT:Potentiometer_Bourns_3006P_I
- Potentiometer_THT:Potentiometer_Bourns_3006P_I
- Potentiometer_THT:Potentiometer_Bourns_3006Y_I
- Potentiometer_THT:Potentiometer_Bourns_3009P_I
- Potentiometer_THT:Potentiometer_Bourns_3009Y_I
- Potentiometer_THT:Potentiometer_Bourns_3266P_I
- Potentiometer_THT:Potentiometer_Bourns_3266W_I

Filtered by Library (Potentiometer_THT): 111 matching footprints

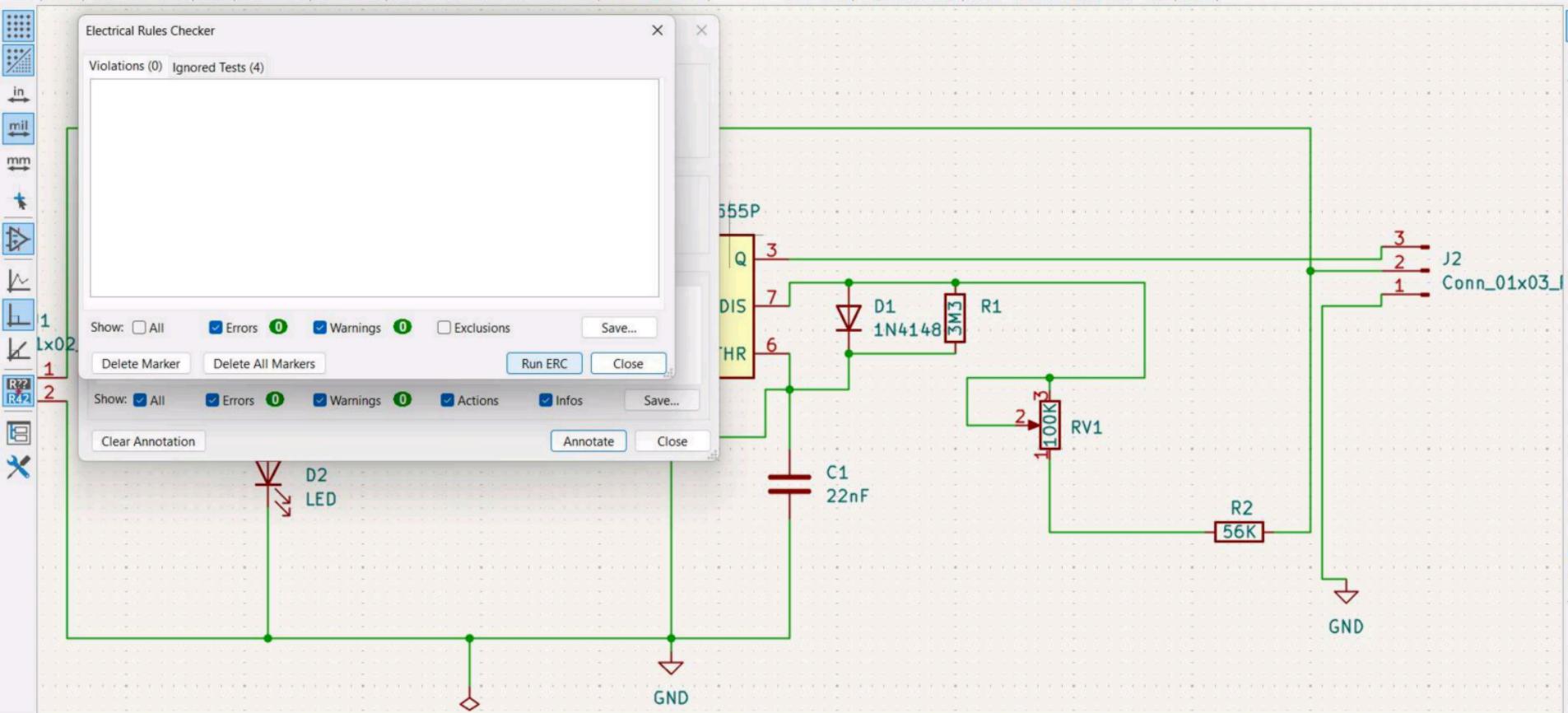
Description: 1110U1Q 1110TNP 1110U2A 1110UQ0 Potentiometer, horizontal, Alps RK163 Single, <https://tech.alpsalpine.com/prod/e/pdf/potentiometer/rotarypotentiometers/rk16/rk16.pdf>; Keywords: Potentiometer horizontal Alps RK163 Single

Library location: C:\Program Files\KiCad\9.0\share\kicad\footprints\Potentiometer_THT.pretty

Apply, Save Schematic & Continue

OK

Cancel



*Servo motor tester — PCB Editor

File Edit View Place Route Inspect Tools Preferences Help

Track: use ne

Update PCB from Schematic

Options

- Re-link footprints to schematic symbols based on their reference designators
- Delete footprints with no symbols
- Replace footprints with those specified in the schematic
- Delete/replace footprints even if locked

Changes Applied to PCB

Updated RV1 footprint filters to 'Potentiometer'.
Connected RV1 pin 3 to Net-(D1-A).
Connected RV1 pin 1 to Net-(R2-Pad1).
Connected RV1 pin 2 to Net-(D1-A).
Added RV1 (footprint 'Potentiometer_THT:Potentiometer_Alps_RK163_Single_Horizontal').

Total warnings: 0, errors: 0.

Show: All Errors 0 Warnings 0 Actions Infos Save... Update PCB Close

Zoom 20.00

Pads Vias Track Segments Nets Unrouted
28 0 0 8 4

Appearance

Layers Objects Nets

- F.Cu
- B.Cu
- F.Adhesive
- B.Adhesive
- F.Paste
- B.Paste
- F.Silkscreen
- B.Silkscreen
- F.Mask
- B.Mask
- User.Drawings
- User.Comments
- User.Eco1
- User.Eco2
- Edge.Cuts
- Margin
- F.Courtyard
- B.Courtyard
- B.Fab
- B.Fab
- User.1
- User.2

Layer Display Options

Presets (Ctrl+Tab): All Layers

Viewports (Shift+Tab):

Selection Filter

- All items
- Footprints
- Tracks
- Pads
- Zones
- Dimensions
- Locked items
- Text
- Vias
- Graphics
- Rule Areas
- Other items

The screenshot shows the KiCad PCB Editor interface. The main workspace is a dark blue grid. A floating dialog box titled "Update PCB from Schematic" is open, containing settings for updating footprints and a log of changes made to the PCB. The status bar at the bottom provides a quick overview of the current state of the board components. On the right side, there's a comprehensive "Appearance" panel with tabs for Layers, Objects, and Nets, listing various board layers and their colors. Below it are sections for Presets, Viewports, and a Selection Filter. The left side features a vertical toolbar with icons for various tools like Pads, Vias, and Rules. The top menu bar includes File, Edit, View, Place, Route, Inspect, Tools, Preferences, and Help.