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BOARD CHARACTERISTICS

Copper Layer Count: 2 Board Thickness: 1.6000 mm

Board overall dimensions: 129.2860 mm \times 78.7400 mm

Min track/spacing: 0.1000 mm / 0.1000 mm Min hole diameter: 0.3000 mm

Copper Finish: None Impedance Control: No Castellated pads: No Plated Board Edge: No

Edge card connectors: No

Layer Name	Туре	Material	Thickness (mm)	Color	Epsilon R	Loss Tangent
F.Silkscreen	Top Silk Screen	Not specified	0 mm	Not specified	1	0
F.Paste	Top Solder Paste		0 mm		1	0
F.Mask	Top Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
F.Cu	copper		0.035 mm		1	0
Dielectric	core	FR4	1.51 mm	Not specified	4.5	0.02
B.Cu	copper		0.035 mm		1	0
B.Mask	Bottom Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
B.Paste	Bottom Solder Paste		0 mm		1	0
B.Silkscreen	Bottom Silk Screen	Not specified	0 mm	Not specified	1	0

George Sleen				
Team 5				
Sheet:				
File: robot-mot	herboard.kicad_pcb		D	
Title: Robot	Motherboard			
Size: A4	Date: 2025-07-04		Rev: v1.0.0	
KiCad E.D.A. 9.0.2				

129.3 82.4

BOARD CHARACTERISTICS

Copper Layer Count: 2 Board Thickness: 1.6000 mm

Board overall dimensions: 129.2860 mm \times 78.7400 mm

Min track/spacing: 0.1000 mm / 0.1000 mm Min hole diameter: 0.3000 mm

Copper Finish: None Impedance Control: No Castellated pads: No Plated Board Edge: No

Edge card connectors: No

Layer Name	Туре	Material	Thickness (mm)	Color	Epsilon R	Loss Tangent
F.Silkscreen	Top Silk Screen	Not specified	0 mm	Not specified	1	0
F.Paste	Top Solder Paste		0 mm		1	0
F.Mask	Top Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
F.Cu	copper		0.035 mm		1	0
Dielectric	core	FR4	1.51 mm	Not specified	4.5	0.02
B.Cu	copper		0.035 mm		1	0
B.Mask	Bottom Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
B.Paste	Bottom Solder Paste		0 mm		1	0
B.Silkscreen	Bottom Silk Screen	Not specified	0 mm	Not specified	1	0

George Sleen
Team 5
Sheet:
File: robot-motherboard.kicad_pcb

 Title: Robot Motherboard

 Size: A4
 Date: 2025-07-04
 Rev: v1.0.0

 KiCad E.D.A. 9.0.2
 Id: 2/4

129.3 82.4 OUT GND WingO_S 3V3 SDA SCL GND 12C0 470R 10K 4k7 4k7 4k7 VOUT+ 75 ROBOT MOTHERBOARD VOUT-User.Input G1 SSD1306_OLED POT1 C11 ----Extra ----GND 12 2 RX0 TX0 C3

BOARD CHARACTERISTICS

2 1.6000 mm Copper Layer Count: Board Thickness:

Board overall dimensions: 129.2860 mm x 78.7400 mm

Min hole diameter: 0.3000 mm Min track/spacing: 0.1000 mm / 0.1000 mm

Copper Finish: None Impedance Control: No Castellated pads: Plated Board Edge: No No

Edge card connectors: No

Layer Name	Туре	Material	Thickness (mm)	Color	Epsilon R	Loss Tangent
F.Silkscreen	Top Silk Screen	Not specified	0 mm	Not specified	1	0
F.Paste Top Solder Paste			0 mm		1	0
F.Mask	Top Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
F.Cu	copper		0.035 mm		1	0
Dielectric	core	FR4	1.51 mm	Not specified	4.5	0.02
B.Cu	copper		0.035 mm		1	0
B.Mask	Bottom Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
B.Paste	Bottom Solder Paste		0 mm		1	0
B.Silkscreen	Bottom Silk Screen	Not specified	0 mm	Not specified	1	0

George Sleen	
Team 5	
Sheet: File: robot-motherboard.kicad_pcb	D
Title: Robot Motherboard	
Size: A4 Date: 2025-07-04	Rev: v1.0.0
KiCad E.D.A. 9.0.2	ld: 3/4

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BOARD CHARACTERISTICS

1.6000 mm Copper Layer Count: Board Thickness:

Board overall dimensions: 129.2860 mm x 78.7400 mm

Min track/spacing: Min hole diameter: 0.3000 mm 0.1000 mm / 0.1000 mm

Copper Finish: Impedance Control: No None Castellated pads: Plated Board Edge: No No

Edge card connectors: No

Layer Name	Туре	Material	Thickness (mm)	Color	Epsilon R	Loss Tangent
F.Silkscreen	Top Silk Screen	Not specified	0 mm	Not specified	1	0
F.Paste	Top Solder Paste		0 mm		1	0
F.Mask	Top Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
F.Cu	copper		0.035 mm		1	0
Dielectric	core	FR4	1.51 mm	Not specified	4.5	0.02
B.Cu	copper		0.035 mm		1	0
B.Mask	Bottom Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
B.Paste	Bottom Solder Paste		0 mm		1	0
B.Silkscreen	Bottom Silk Screen	Not specified	0 mm	Not specified	1	0

George Sleen Team 5 Sheet:

File: robot-motherboard.kicad_pcb Title: Pohot Motherhoard

TILLE: KODOL		
Size: A4	Date: 2025-07-04	Rev: v1.0.0
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