TS ROBOT 2.0.0

RO

BOARD CHARACTERISTICS

Copper Layer Count: 2 Board Thickness: 1.6000 mm

Board overall dimensions: 129.2860 mm x 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-m	otherboard.kicad_pcb		D
Title: Robo	ot Motherboard		
Size: A4	Date: 2025-07-04	Rev: v2.0.0	
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KiCad E.D.A. 9.0.2 Id: 1/4
2 3 4 5

129.3

BOARD CHARACTERISTICS

1.6000 mm Copper Layer Count: Board Thickness:

Board overall dimensions: 129.2860 mm \times 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: Robot Motherboard Size: A4 Date: 2025-07-04 Rev: v2.0.0 KiCad E.D.A. 9.0.2 ld: 2/4

129.3 82.4 3V3 OUT GND WingO_S 3V3 SDA SCL GND 12C0 C13 I2C1 Pull-ups 470R 10K 4k7 4k7 4k7 4k7 (Optional) VOUT-User.Input G1 SSD1306_OLED -INO ─N1 C11 --- -Extra ----GND 12 2 RX0 TX0 RV1 RV3

BOARD CHARACTERISTICS

Copper Layer Count: 2 Board Thickness: 1.6000 mm

Board overall dimensions: 129.2860 mm x 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: v2.0.0

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 Idea 7.7/1

KiCad E.D.A. 9.0.2 Id: 3/4

129.3 82.4 J14 000 M3_PTH 100nF (C5) L00nF 100nF 100nF 100nF 100nF C10 100nF 00000

BOARD CHARACTERISTICS

1.6000 mm Copper Layer Count: Board Thickness:

Board overall dimensions: 129.2860 mm x 78.7400 mm

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

Title: Robot Motherboard					
Size: A4	Date: 2025-07-04	Rev: v2.0.0			
KiCad E.D.A. 9.0	2	ld: 4/4	_		