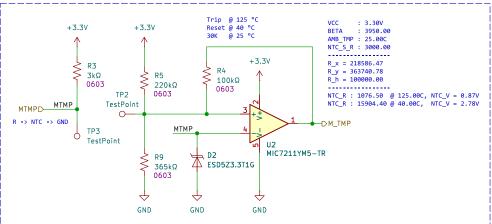
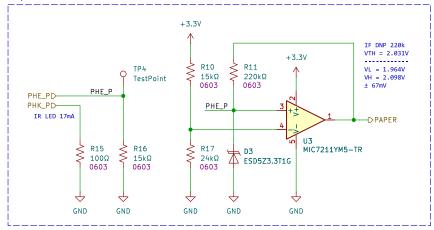


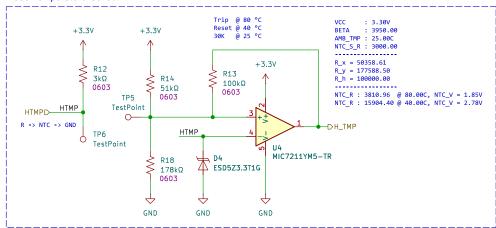
# Motor Temperature Sensor



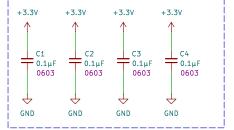
## Paper Sensor



# Head Temperature Sensor



## Filter Caps



ADC Jumper			
HTMP_RAW∢—	R19	HTMP	
	0R 0603		

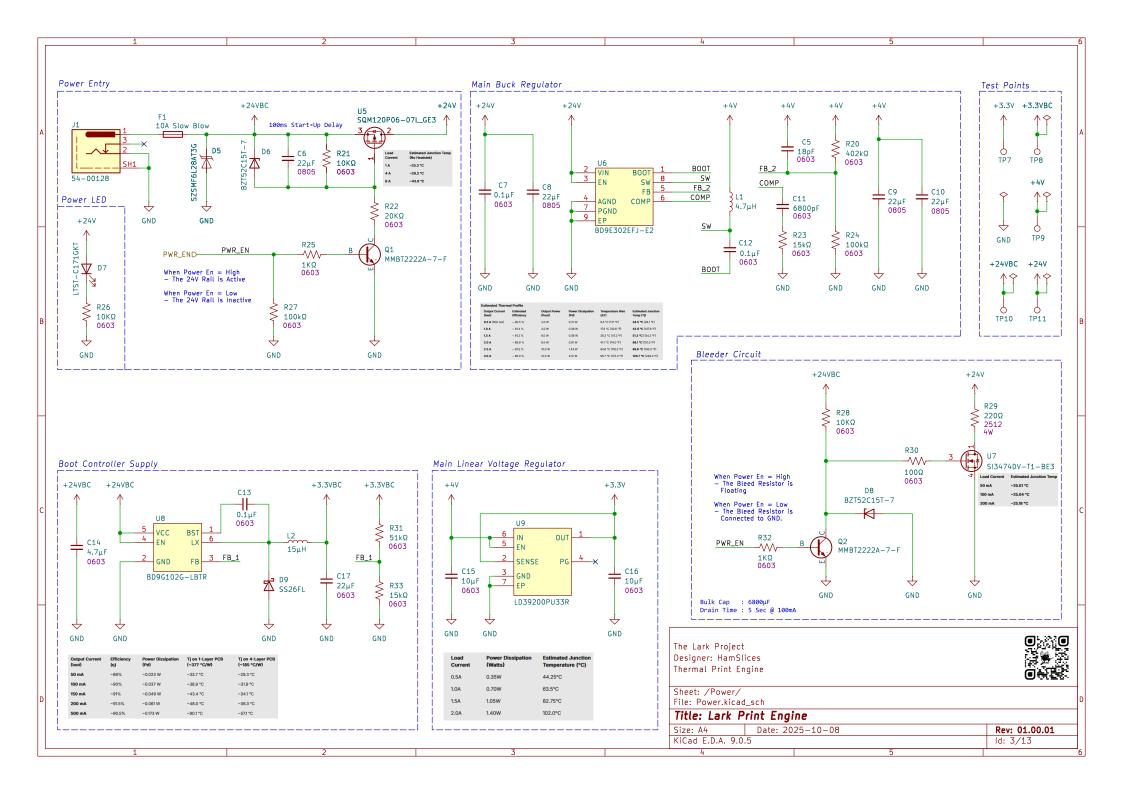
The Lark Project Designer: HamSlices Thermal Print Engine

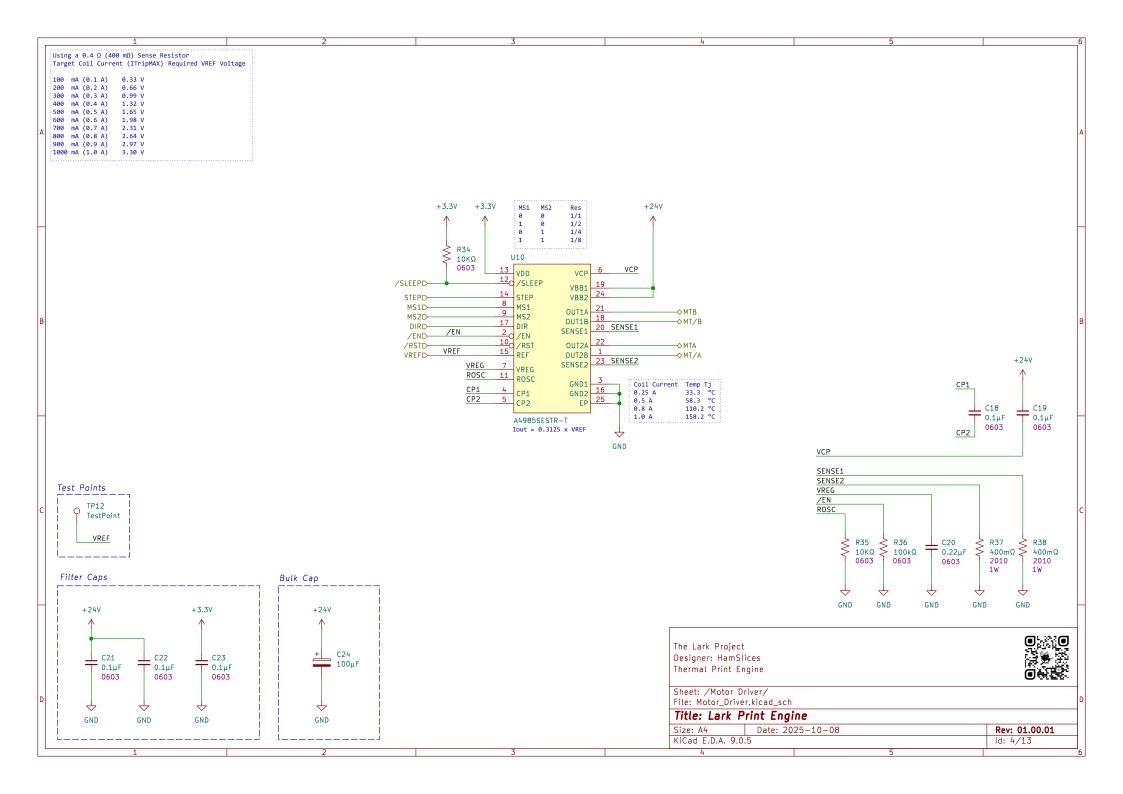
Sheet: /Sensors/ File: Sensors.kicad sch

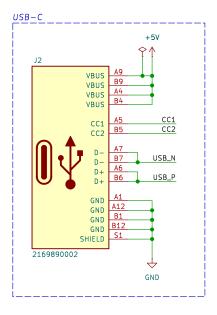
Title: Lark Print Engine

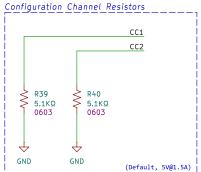
 Size: A4
 Date: 2025-10-08
 Rev: 01.00.01

 KiCad E.D.A. 9.0.5
 Id: 2/13



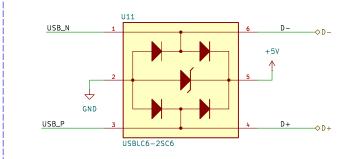






USB TYPE-C PIN ASSIGNMENTS





# Pinout: 2169890002

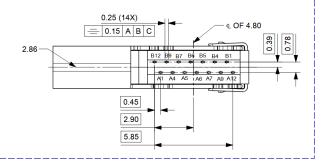
GND

A12

PIN NUMBER	SIGNAL NAME	
A1	GND	
A4	VBUS	
<b>A</b> 5	CC1	
A6	Dp1	
A7	Dn1	
<b>A</b> 9	VBUS	

GND

PIN NUMBER	SIGNAL NAME
B12	GND
B9	VBUS
B7	Dn2
B6	Dp2
B5	CC2
B4	VBUS
B1	GND



The Lark Project Designer: HamSlices Thermal Print Engine

Sheet: /USB/

File: USB.kicad\_sch

Title:	Lark P	rint	Engi	ne
C1 1/				~

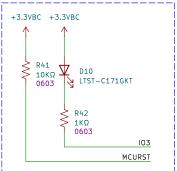
Date: 2025-10-08 Rev: 01.00.01 Size: A4 KiCad E.D.A. 9.0.5 ld: 5/13



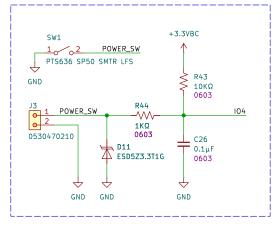
## Programmer & Tutorial

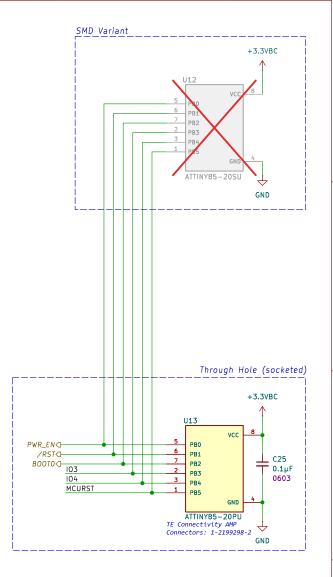
- https://learn.sparkfun.com/tutorials/tiny-avr-programmer-hookup-guide/
- https://www.digikey.com/en/products/detail/sparkfun-electronics/11801/5230948
- https://tinyurl.com/4sdmahcw

## Indicator & Reset pull-up



### Power Switch





The Lark Project
Designer: HamSlices
Thermal Print Engine



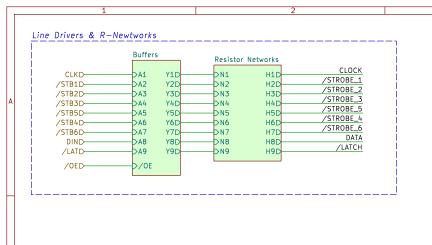
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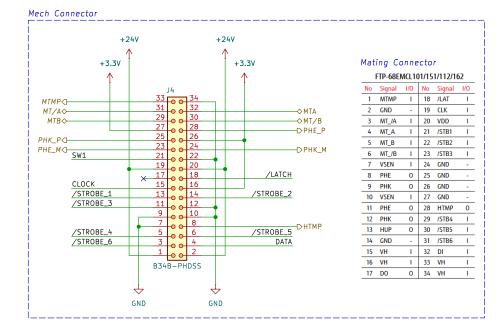
Title: I	Lark P	rint	En	gine

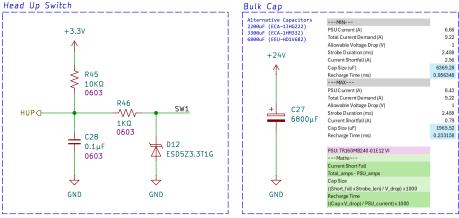
 Size: A4
 Date: 2025-10-08
 Rev: 01.00.01

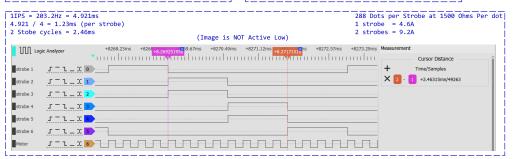
 KiCad E.D.A. 9.0.5
 Id: 6/13

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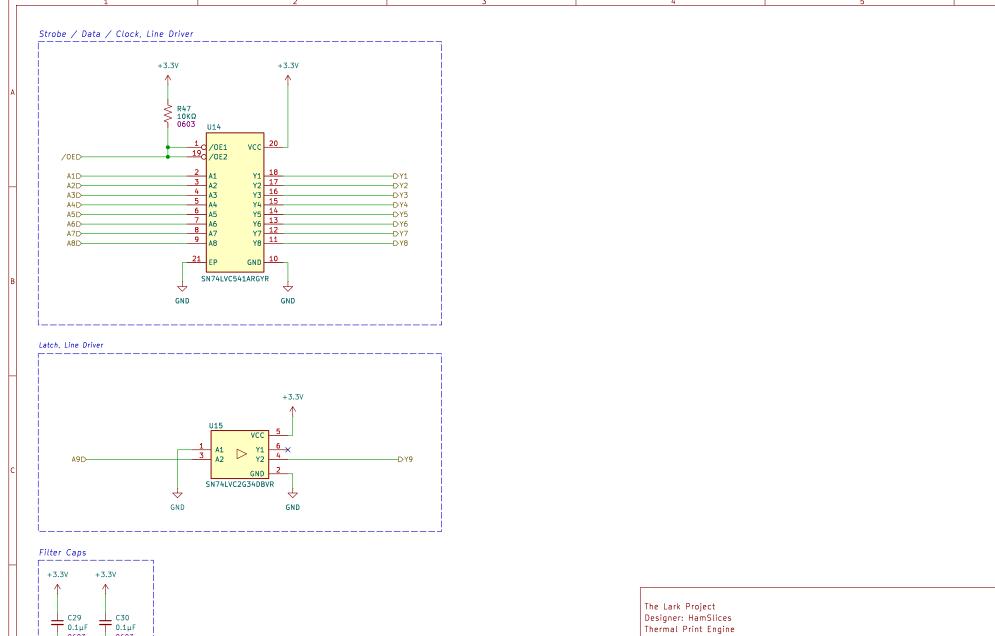
The Lark Project Designer: HamSlices Thermal Print Engine

Sheet: /FTP-68EMCL Connector/
File: FTP-68EMCL Connector.kicad sch

Title: l	Lark P	rint	Engine
		-	

 Size: A4
 Date: 2025-10-08
 Rev: 01.00.01

 KiCad E.D.A. 9.0.5
 Id: 7/13



0603

GND

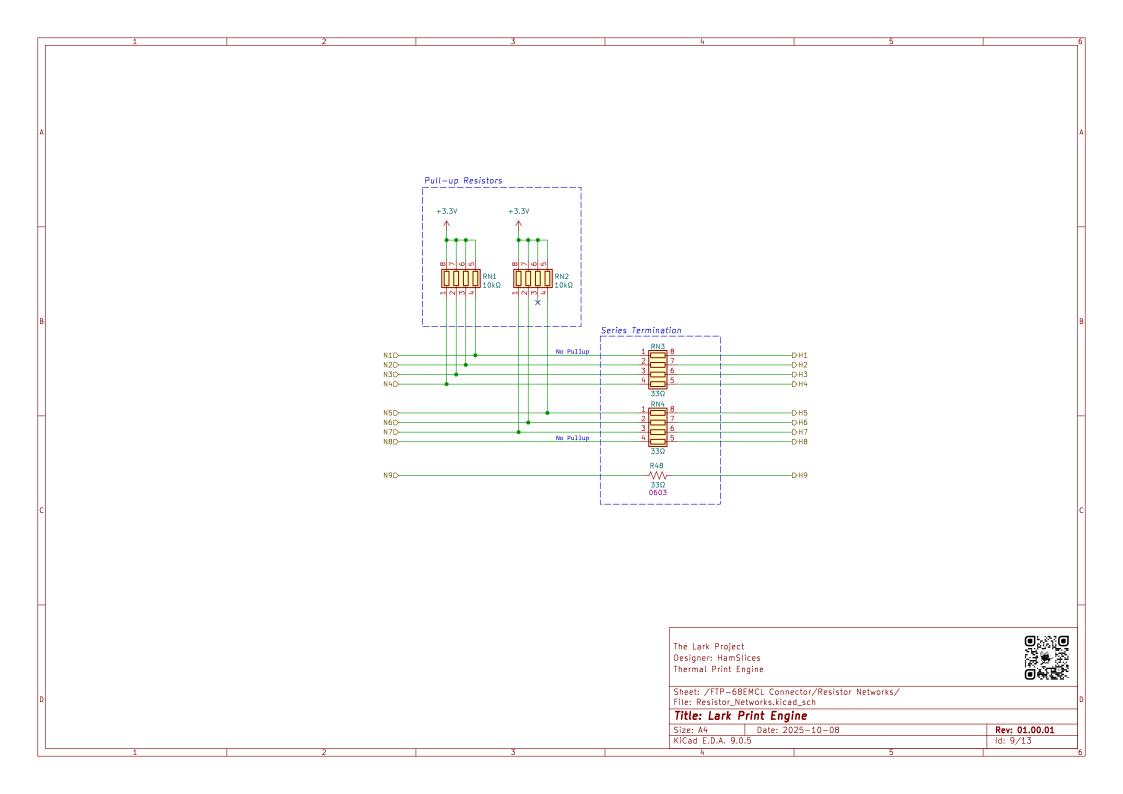
0603

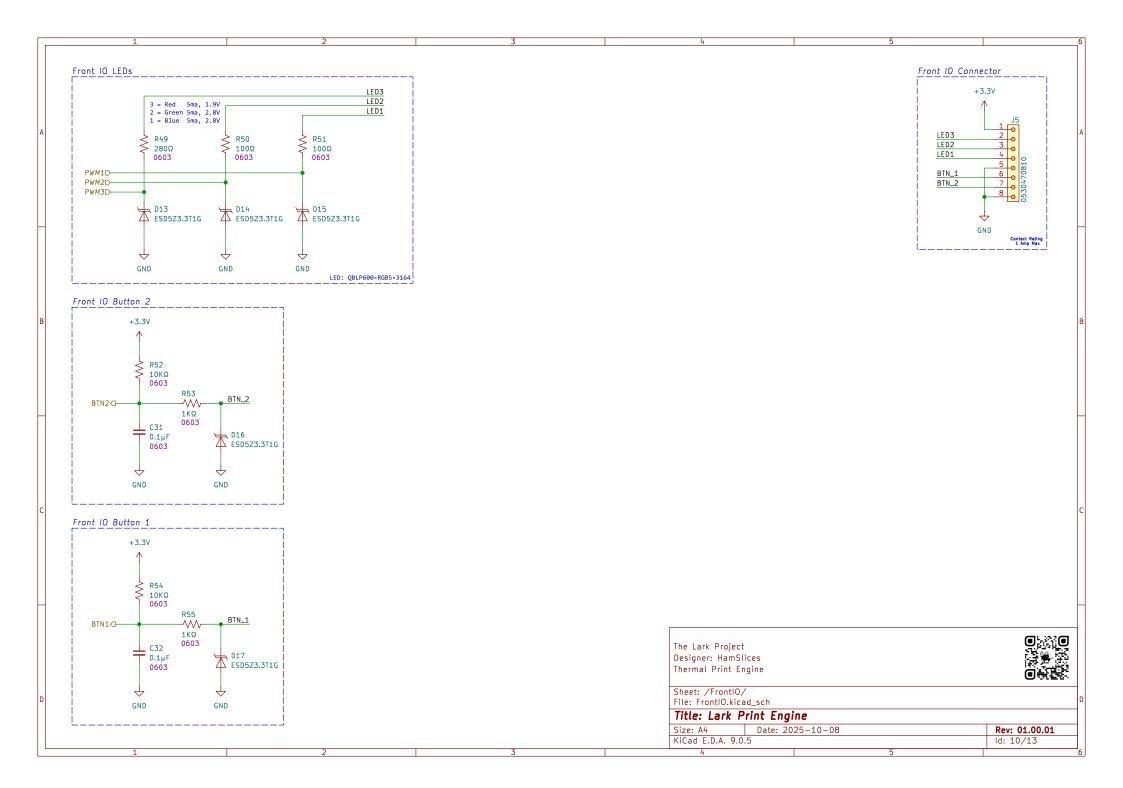
GND

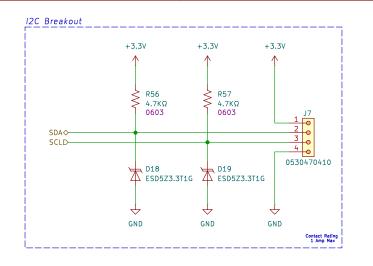
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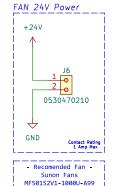
Title: Lark Print Engine

Size: A4	Date: 2025-10-08	Rev: 01.00.01
KiCad E.D.A. 9.0	.5	ld: 8/13

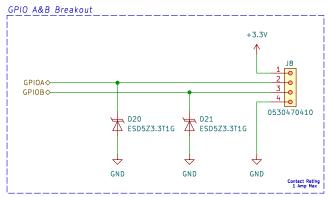








50mm x 50mm x 15.00mm 24V, 1.01 Watts



The Lark Project Designer: HamSlices Thermal Print Engine



Sheet: /Auxiliary/ File: Auxiliary.kicad\_sch

Title: Lark Print Engine

 Size: A4
 Date: 2025-10-08
 Rev: 01.00.01

 KiCad E.D.A. 9.0.5
 Id: 11/13

7

