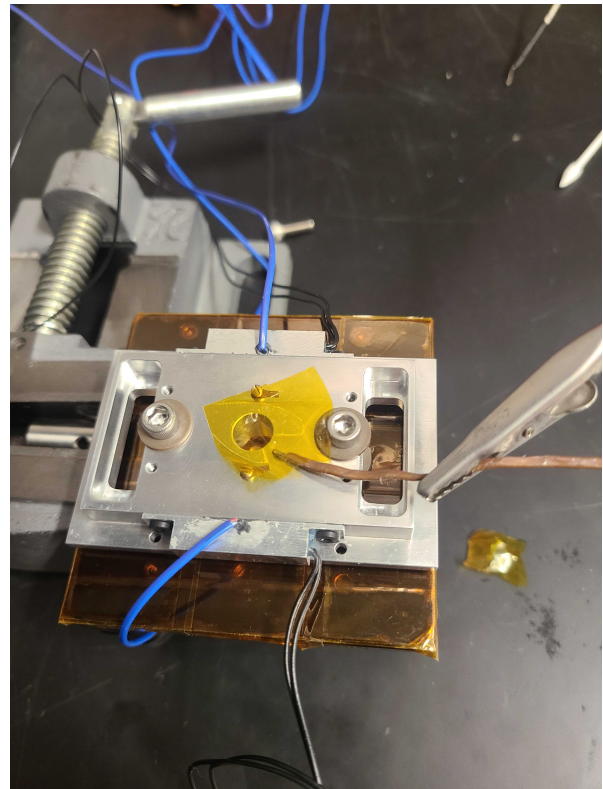




# Heater Block Test

⚙ Status	Done
🎯 Project	🎯 <u>Heat Fiber Bundle Mounting Block</u>
🏷 Tags	

## Setup:



Voltage L, R & Current L, R	Power ( W )	Cartridge Temperature L ,R ( C )	Center Temperature ( C )
0, 0	0	25, 25	25
1.5V @ 120mA	0.18	27, 27	26
3.013, 2.991 @ 240mA	0.72	33, 33	31
5 @ 400mA	2	52, 53	45
7.98, 8.01 @ 650mA	5.2	92, 96	74
12V 990mA, 970mA	11.76	165, 166	135
14V 1.16A, 1.14A	16.1	209, 211	167
14V 1.16A, 1.14A	16.1	216, 220	178

### Table Notes

- L,R means left and Right
- Waited longer at 14V and got the additional row

## Steady State @12V (3A max power box)

Quick Notes:

Room Temp = 73F (on thermostat)

Middle Start temp = 25C

Left and Right Heater Cartridge Temp = 25C

V = 0 for both cartridges

5 Minutes is waited

1.5V set to both Heater Cartridges @ 120mA

Both Carts are at 27C

Center is at 26C

Left is at 3.013V, Right id at 2.991V @ 240mA = 2W

Right is at 33C

Left is at 33C

Middle is at 31C

Both are at 5V @400mA

Left is at 52C, Right is at 53C

Center is at 45C

Left is at 7.98V, right is at 8.01V @ 650mA = 5.2W

Left is at 92C, Right id at 96C Middle is at 74C

Both at 12 V LEft is at 990mA, right is at 970mA

Right is at 165C

Left is at 166C

Middle is at 135C

Botha t 14V, left is at 1.16A, right is at 1.14A

209C left, 211C Right, Middle 167C

waited more time → left is at 216C, right is at 220C middle is at 178C