



Bitmain APW12 upgrade

## Bitmain APW12 upgrade

*For using PSU in overclocked miners*

***Method 1. Add two resistors in FAN IC circuit and wire jumper***



*Bitmain APW12 upgrade*



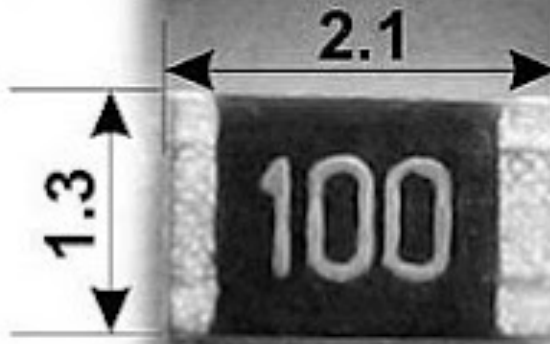
## Step 1

Prepare PSU and parts for upgrade. And soldering tool. Hot air station.

**1206**



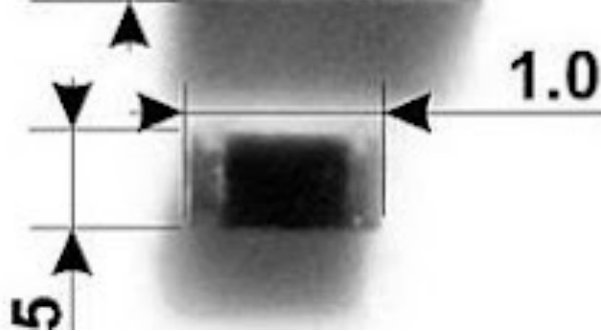
**0805**



**0603**



**0402**



## Step 2

For upgrade, you need to use two resistors 1206 size. Nominals of 56 Ohm 5% and 4.3 Ohm 1% and wire jumper

<https://www.amazon.com/100pcs-1206-Resistor-chip-0-25W/dp/B07YQ8FXG4>



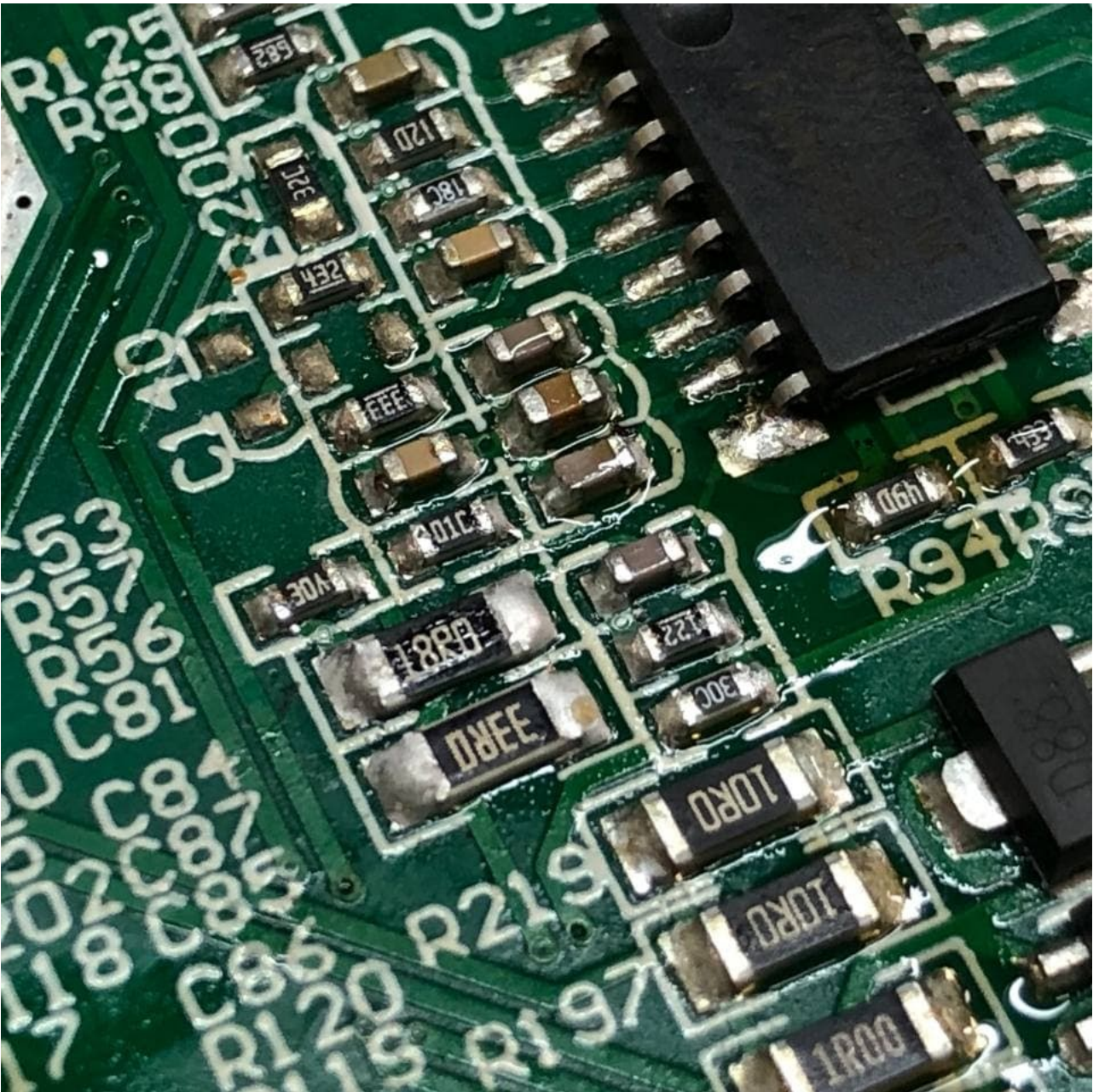
### Step 3

Disassembly PSU. Remove the top cover, carefully unscrew the board from the bottom of the case. Caution High voltage capacitors can be electrocuted if not discharged.



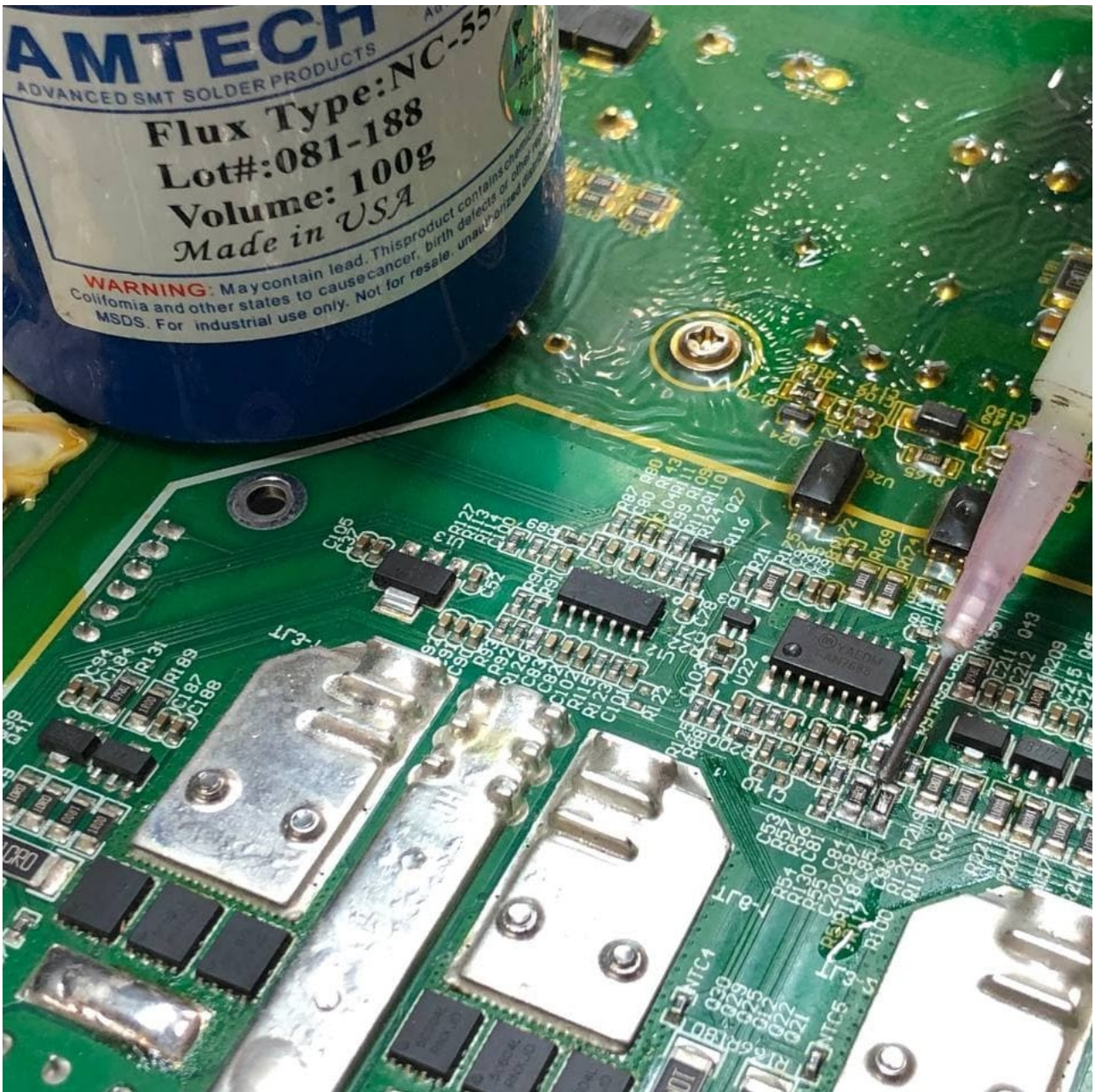
#### Step 4

Carefully turn the board over and find the area where you need to add resistors



**Step 5**

Locate near FAN IC two 1206 size resistors, on top of which you need to solder additional



## Step 6

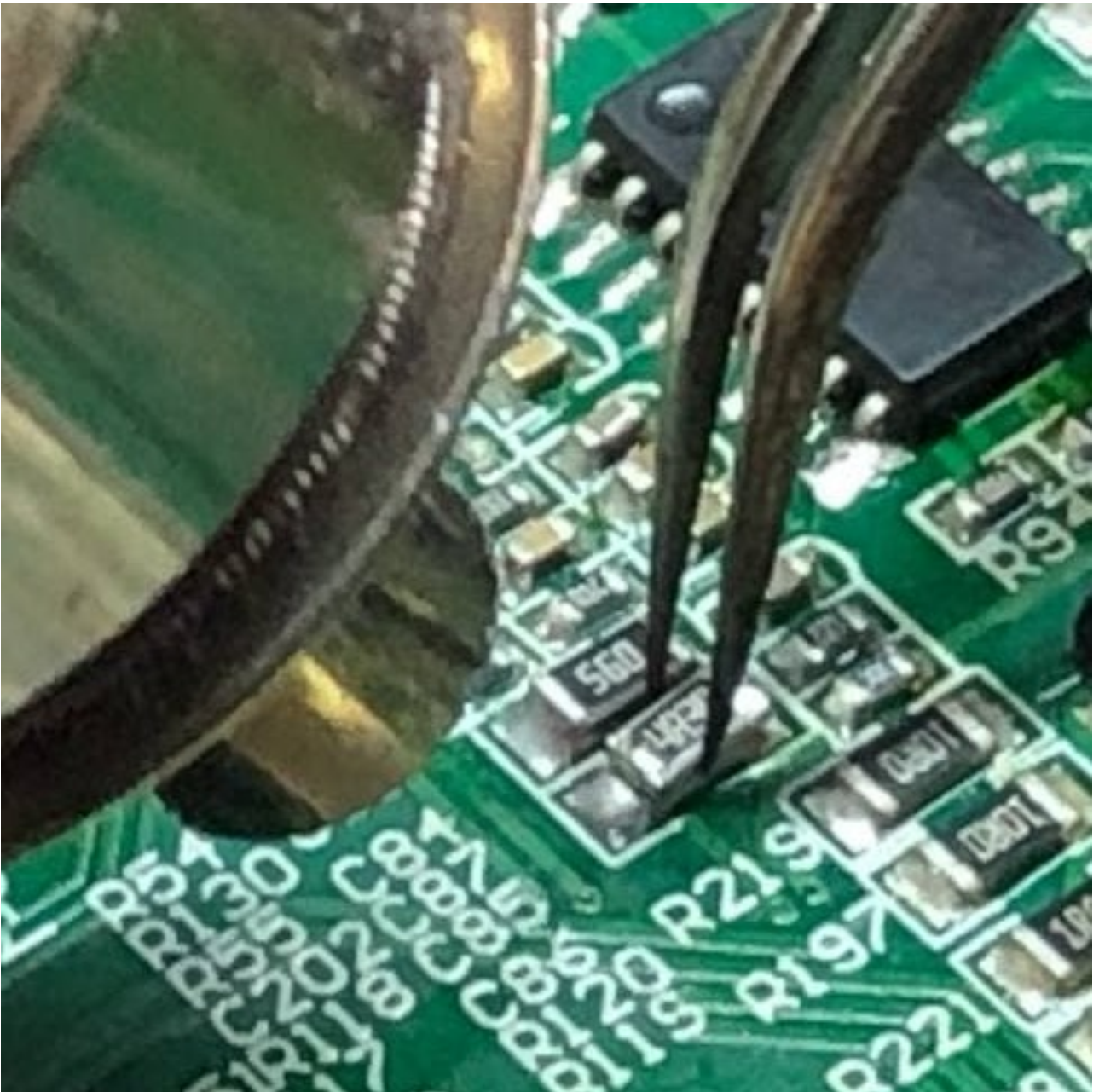
Add flux.



### Step 7

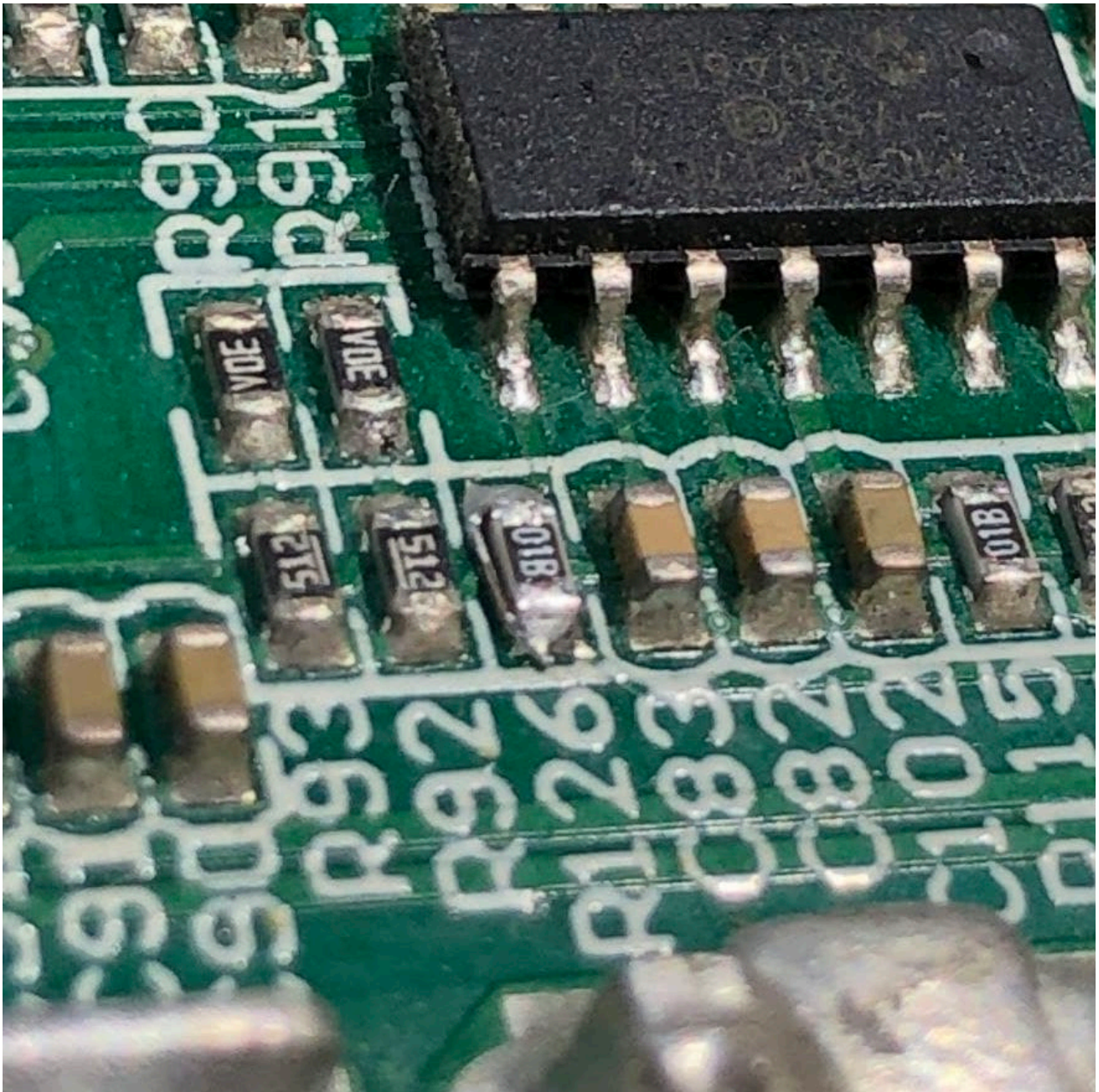
Use hot air station for add first resistor 56 Ohm.





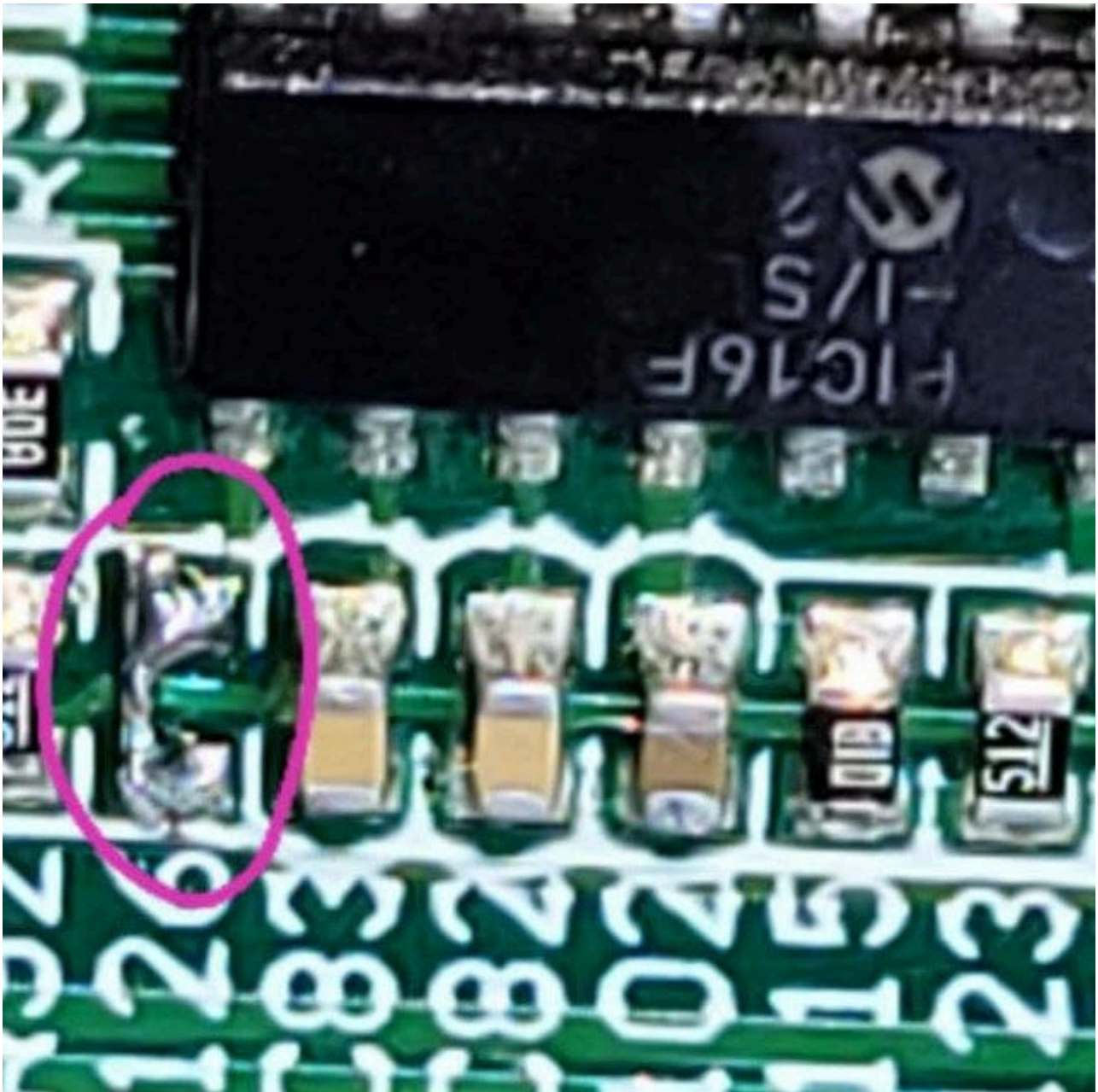
**Step 8**

Add second resistor 4.3 Ohm.



### Step 9

Locate near PIC IC 0805 size resistors R126. Resistor 1 kOhm. Can be marked as 01B or 01H or 102.



### Step 10

Replace resistor or just add wire jumper as on pictures Step 9 or Step 10.

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## **Finish**

*Now you must assemble PSU in back order.*