

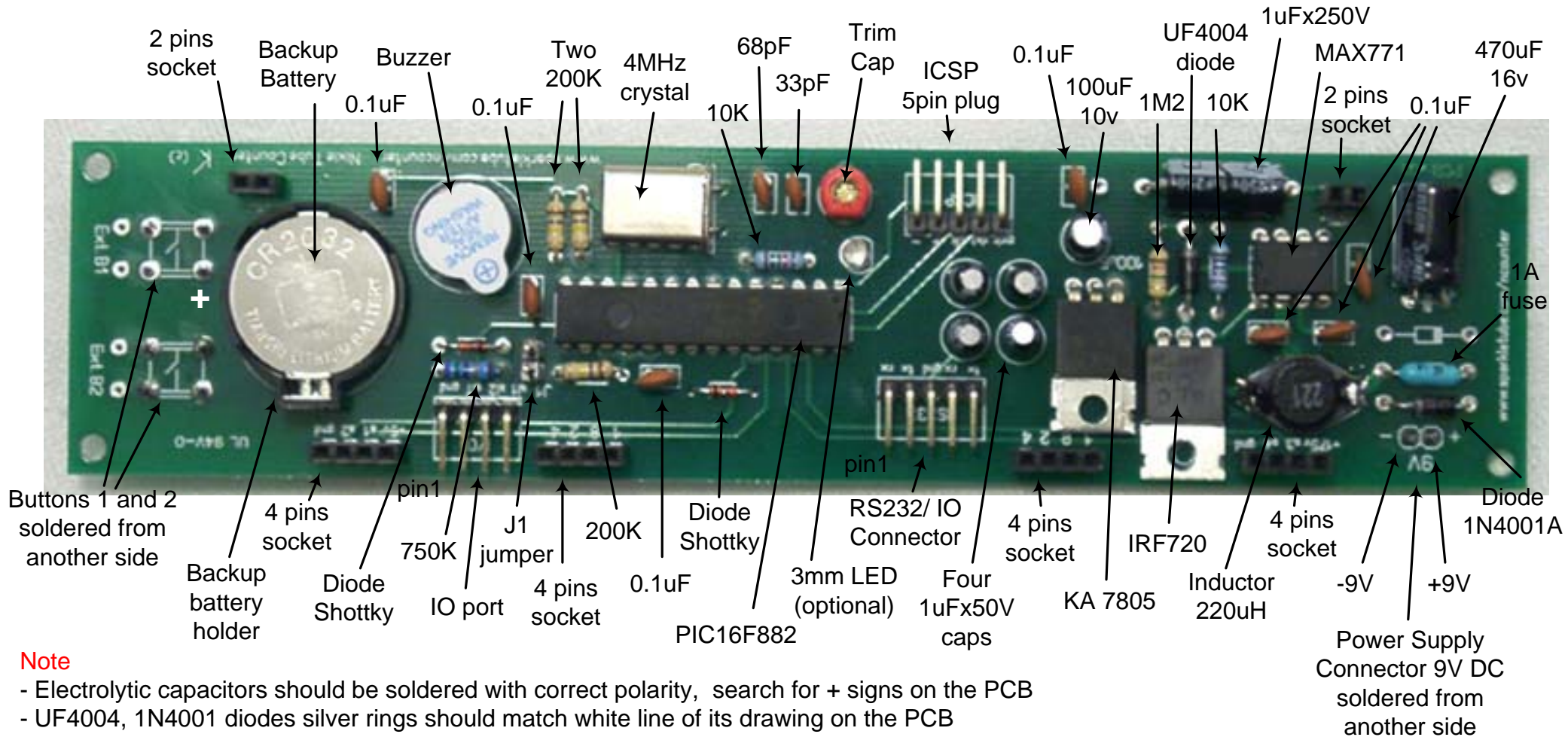
IN-12 Nixie Clock/Counter assembling microcontroller main board v.01

Warning!

- Do not mix polarity, as your IV-18 Clock will not work
- Use only approved and certified Wall Plug Power Supply module
- Power supply with less than 300mA output is not recommended.
- Less than 9V or more than 12V power supply is not advised.

Rs232/IO connector (from left to right):

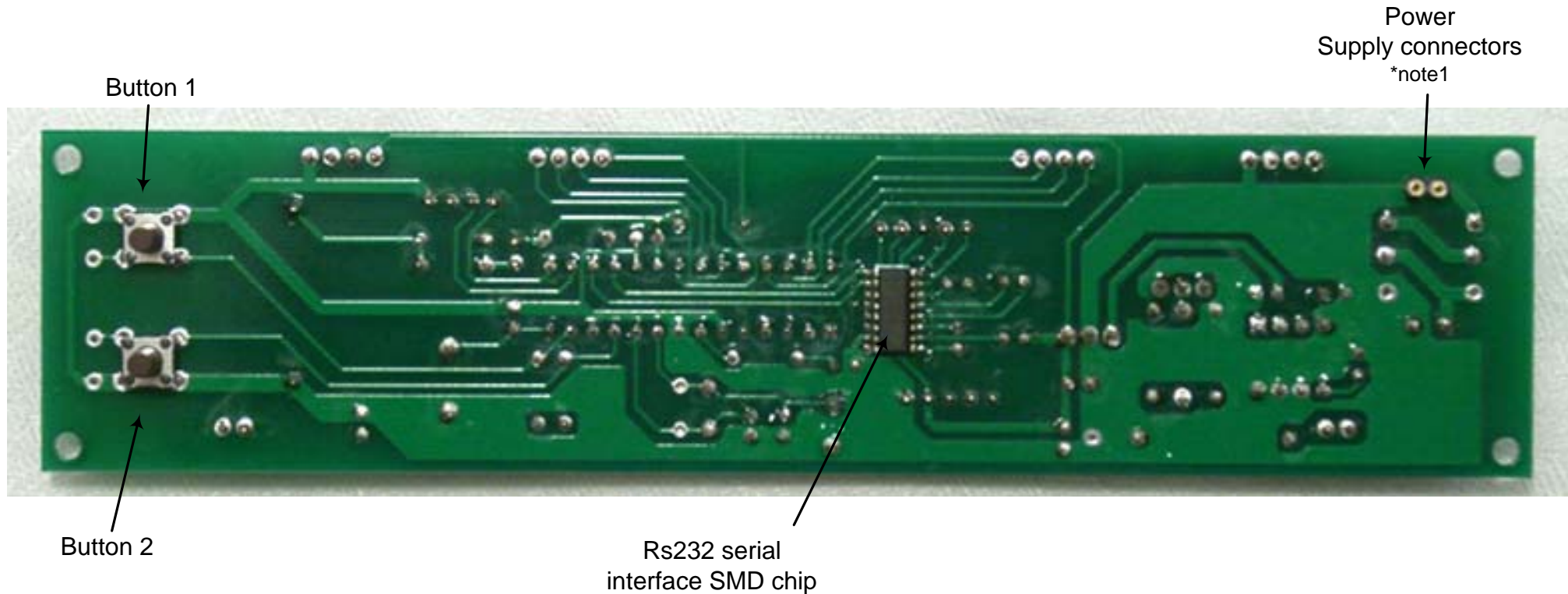
- Pin1 - Clock RX for TTL serial port connection
- Pin2 - Clock TX for TTL serial port connection
- Pin3 - Ground Contact
- Pin4 - Clock RX for Rs232 serial port connection
- Pin5 - Clock TX for Rs232 serial port connection



Note

- Electrolytic capacitors should be soldered with correct polarity, search for + signs on the PCB
- UF4004, 1N4001 diodes silver rings should match white line of its drawing on the PCB
- Shottky diodes have black ring sign, which should match white line of its drawing on the PCB
- Buzzer polarity is not marked on the PCB, but it should be inserted and soldered as shown
- Pin number one is clearly marked on the PCB and IC pin number one should go to square solder pad

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Note 1.

2 pin power connector polarity shown on the bottom picture on the page 1

Note 2.

Rs232 serial interface connector, 5 pins from the left as shown on the picture:

- Pin1 - Clock RX for TTL serial port connection
- Pin2 - Clock TX for TTL serial port connection
- Pin3 - Ground Contact
- Pin4 - Clock RX for Rs232 serial port connection
- Pin5 - Clock TX for Rs232 serial port connection

Note 3.

Input/output connector, 4 pins from the left as shown on the picture:

- Pin1 - Ground Contact
- Pin2 - Clock/Counter test frequency TTL level output
- Pin3 - Clock/Counter Alarm 2 external TTL level output
- Pin4 - Clock/Counter Alarm 1 external TTL level output

Note 4.

Put Jumper 1 (J1) on to activate Battery backup protection.
To reset the Clock, disconnect it from the Main and remove jumper