

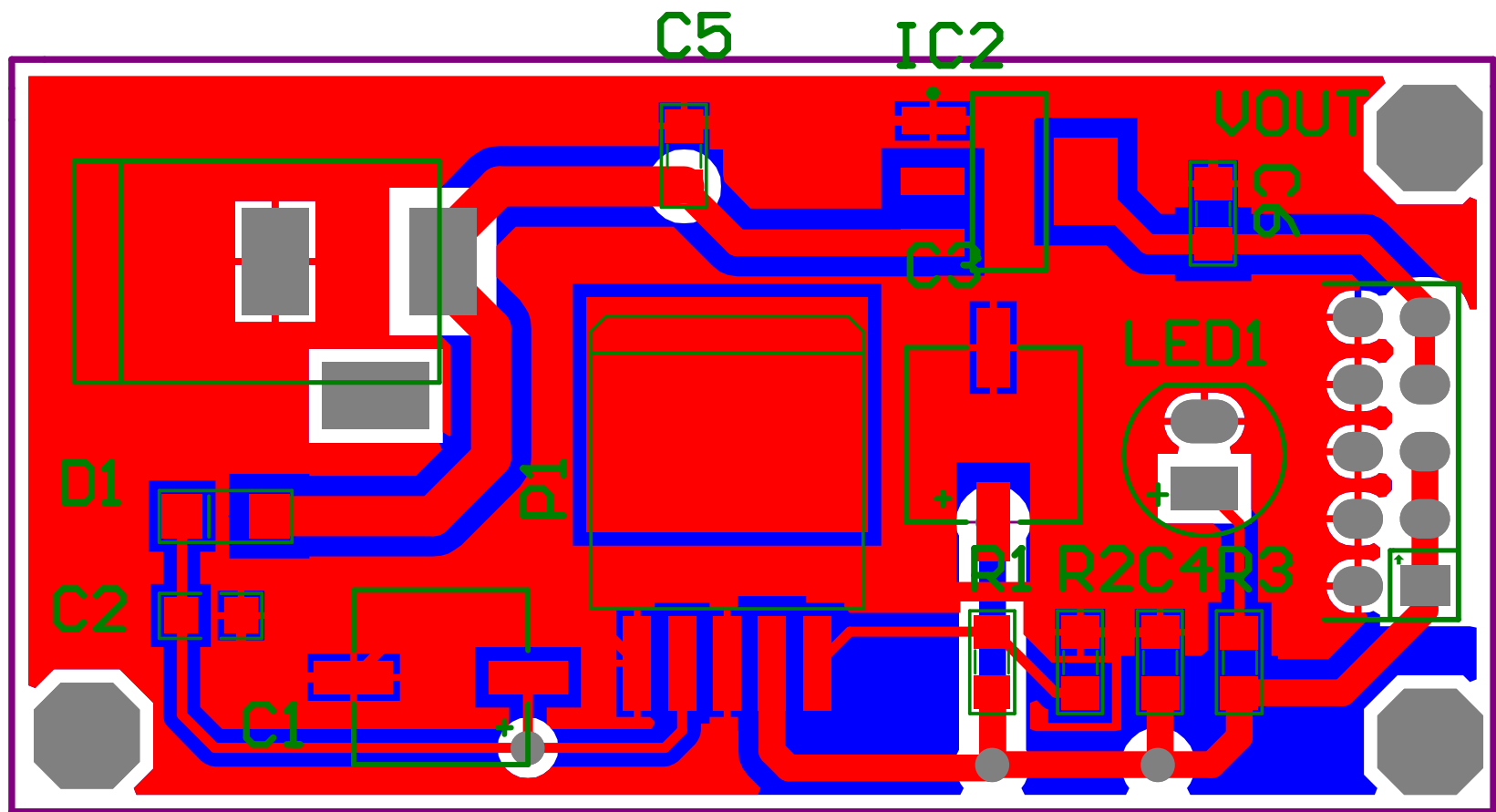
Figure 1 illustrates the pin connections and the circuit diagram for the LED module. The left side shows the pin headers and their connections:

- UART1:** Pin 1 is connected to 3.3VDC, and Pin 2 is connected to GND.
- UART2:** Pin 3 is connected to U1TX, Pin 2 is connected to U2RX, and Pin 1 is connected to GND.
- ISP:** Pin 5 is connected to VPP, Pin 4 is connected to 3.3VDC, Pin 2 is connected to GND, Pin 2 is connected to PGD, and Pin 1 is connected to PGC.

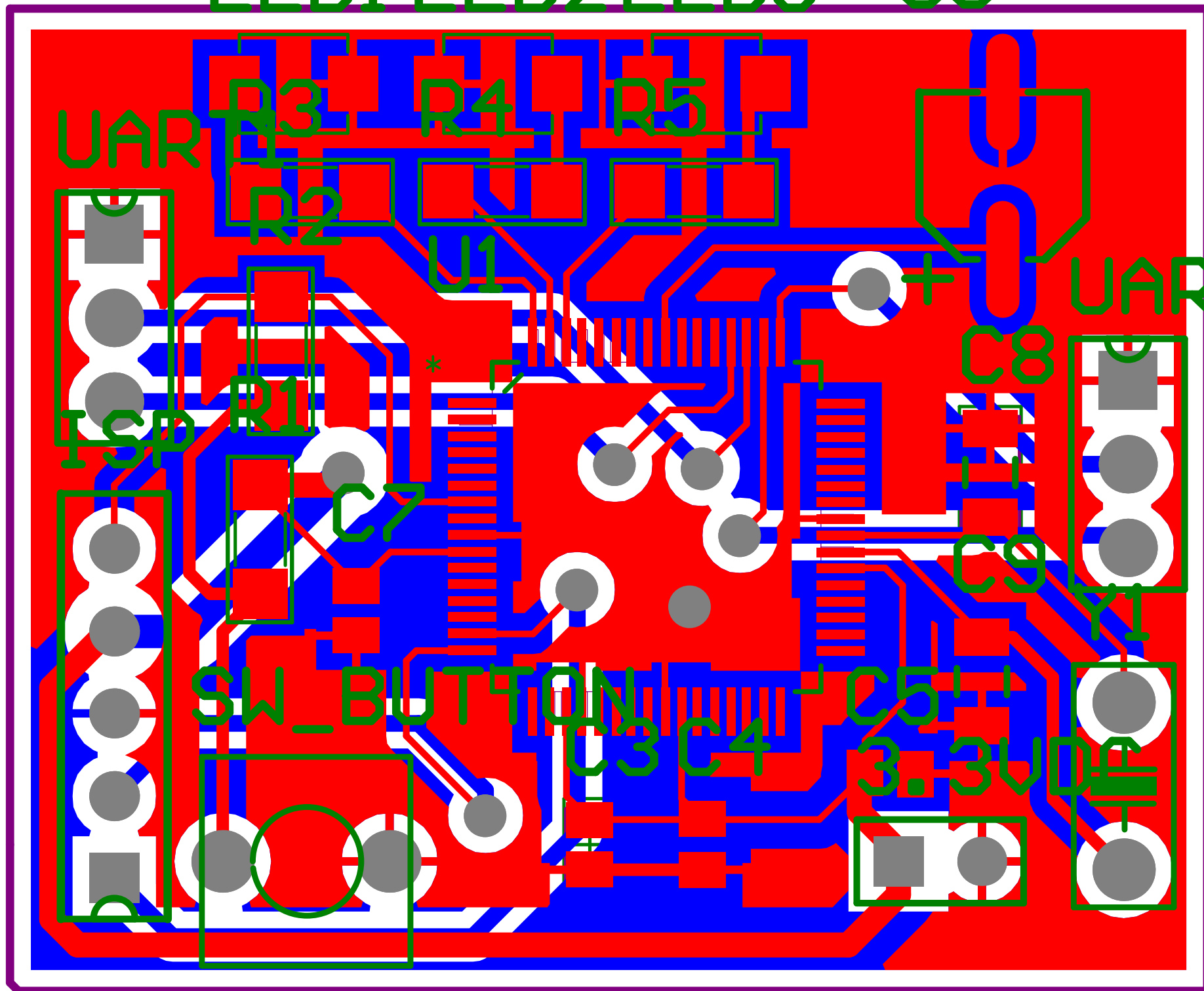
The right side shows the circuit diagram for the LED module. It features three LEDs (LED1, LED2, LED3) connected in parallel to a common GND. Each LED is controlled by a signal line (U1TX, U2RX, VPP) through a 220 ohm resistor (R3, R4, R5).

[illegible]

VIN



LED1 LED2 LED3 C6



# Bill of Materials

<Parameter Title not found>

Source Data From:	<u>machvl.PrjPcb</u>
Project:	<u>machvl.PrjPcb</u>
Variant:	<u>None</u>

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Footprint	Comment	LibRef	Designator	Description	Quantity
HDR1X2	Header 2	Header 2	3.3VDC	Header, 2-Pin	1
C0805	Cap	Cap	C3, C4, C5, C7	Capacitor	4
CAP 1uF	Cap2	Cap2	C6	Capacitor	1
SMD					
C1206	Cap	Cap	C8, C9	Capacitor	2
CON5	JP5	Con5	ISP	Connector 5	1
SM-LED-GEEN	LED	LED	LED1, LED2, LED3	LED Single colour Green and Red	3
SM-1206	Res1	Res1	R1	Resistor	1
SM-1206	res	Res1	R2	Resistor	1
SM-1206	220	R	R3, R4, R5	Resistor 1/4W	3
SW2	SW	SW2	SW_BUTTON	Switch button 2 pin	1
TQFP64_10X10MC	PIC24FJ128GA06	PIC24FJ128GA06	U1		1
CON3	JP3	Con3	UART1, UART2	Connector 3	2
XT455k	XTAL	XTAL	Y1	Crystal Oscillator	1
					22

Approved	Notes