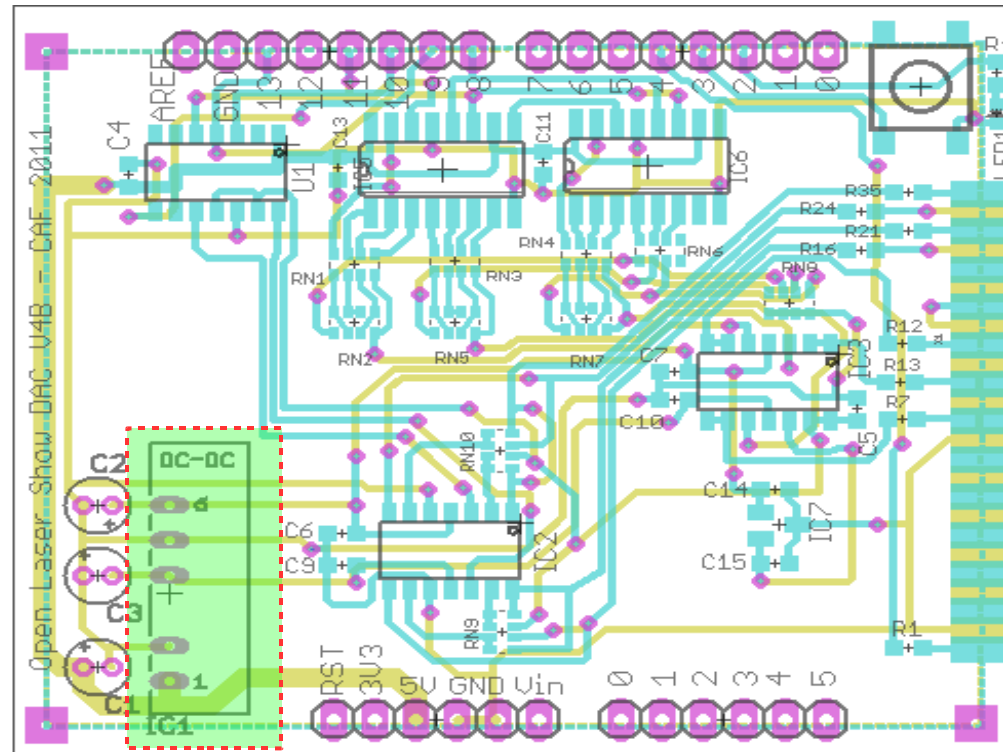


IC1 - 5V to +/-12V DC to DC – 945-1105-ND – RB-0512D

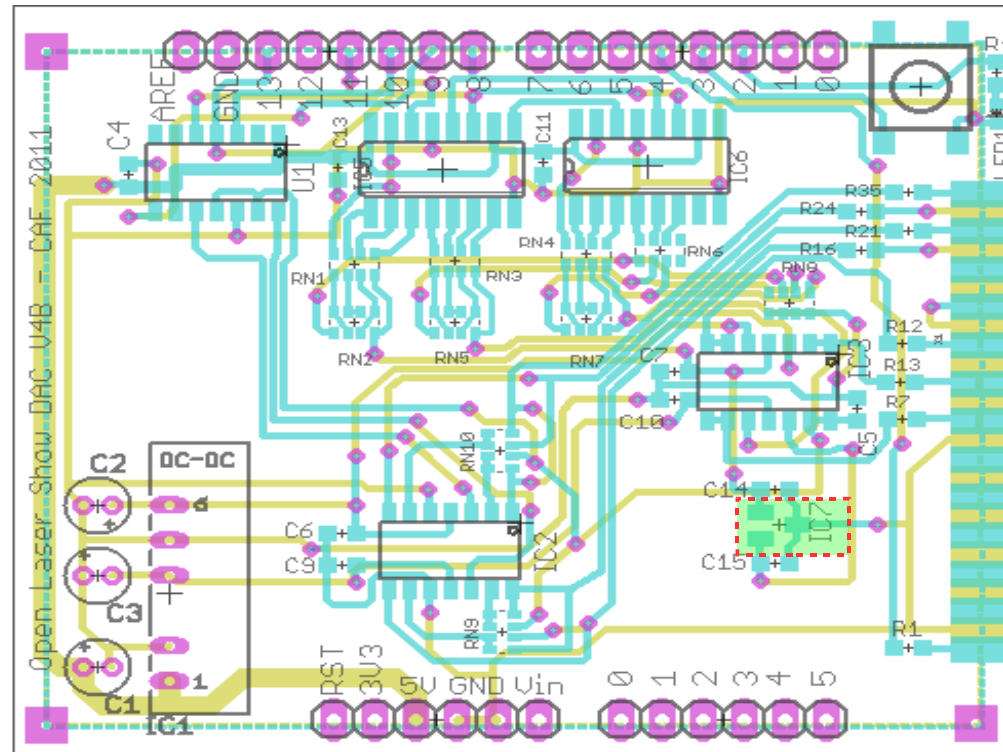


Notes: None



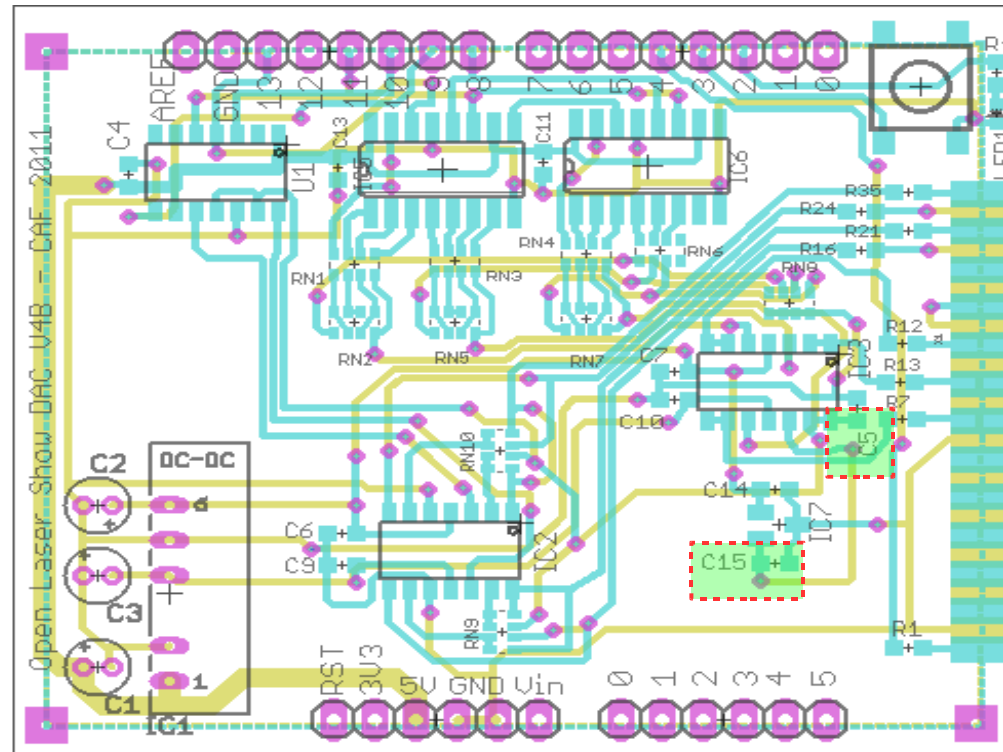
Page 2 of 17

IC7 - 5.0V Voltage Reference – MAX6105EUR+TCT-ND – MAX6105EUR+T



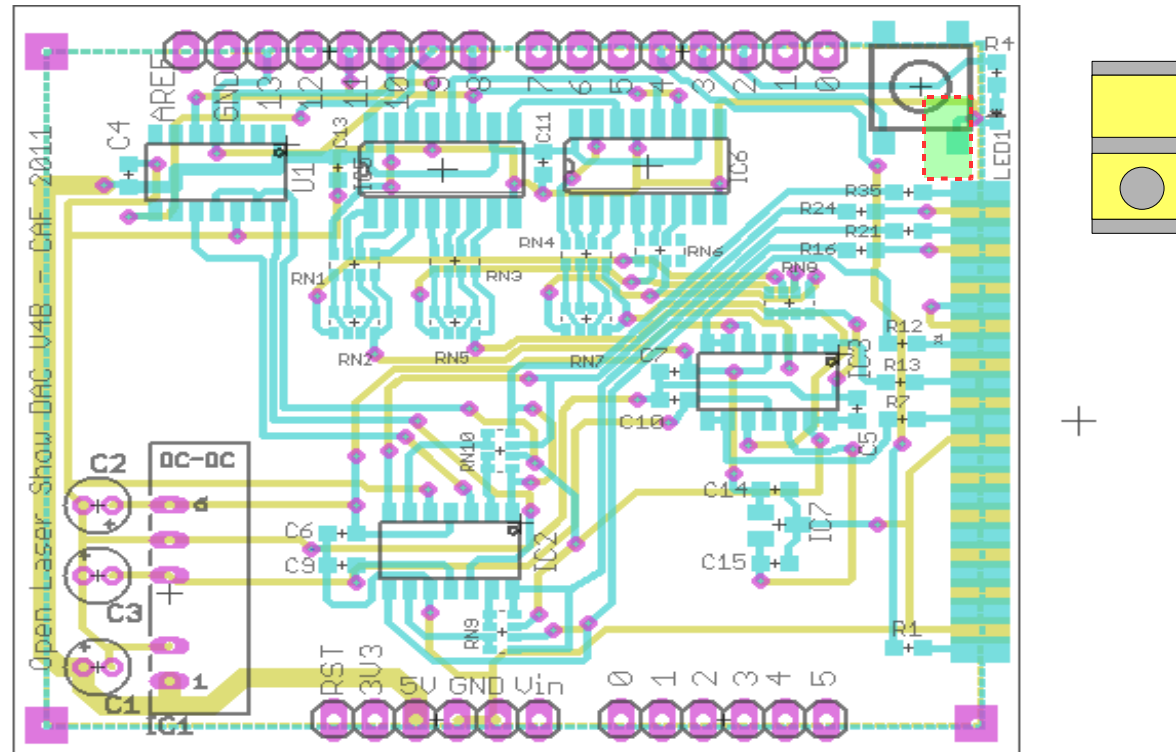
Notes: None.

C5, C15 - 1.0 uF Capacitor 0603 – 445-1327-1-ND – 1.0 uF 0603



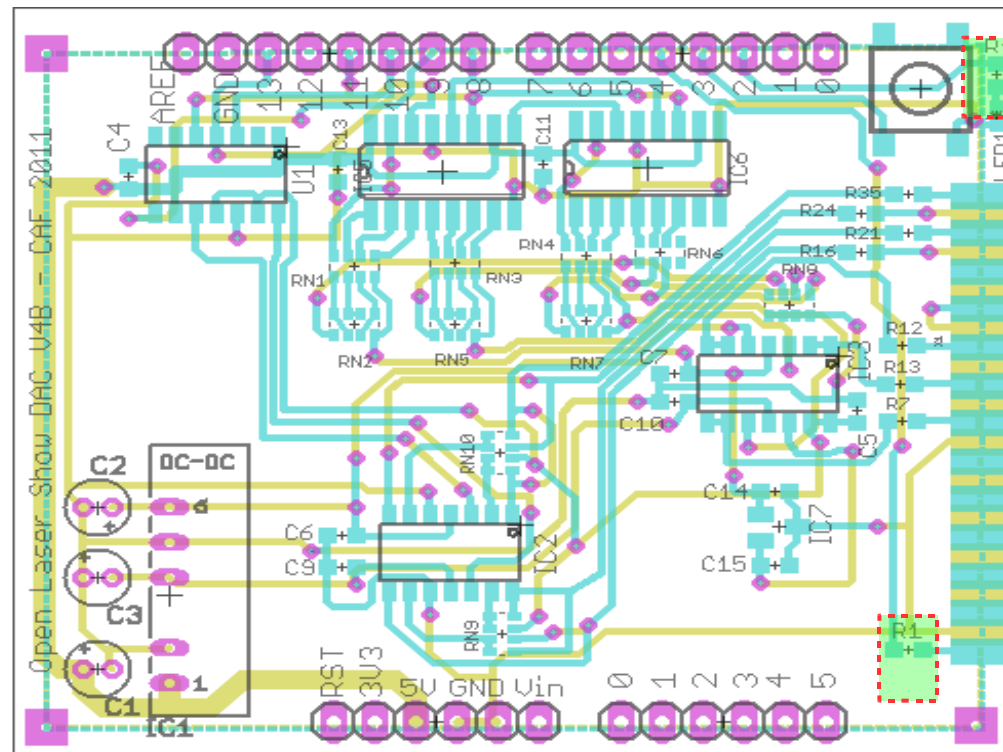
Notes: None.

LED1 - Green LED 0603 – 475-2709-1-ND



Notes: The orientation of the LED is important. Please orient the LED according to this drawing.

R1, R4 – 1k Resistor 0603 – P1.0KGCT-ND – 1k 0603

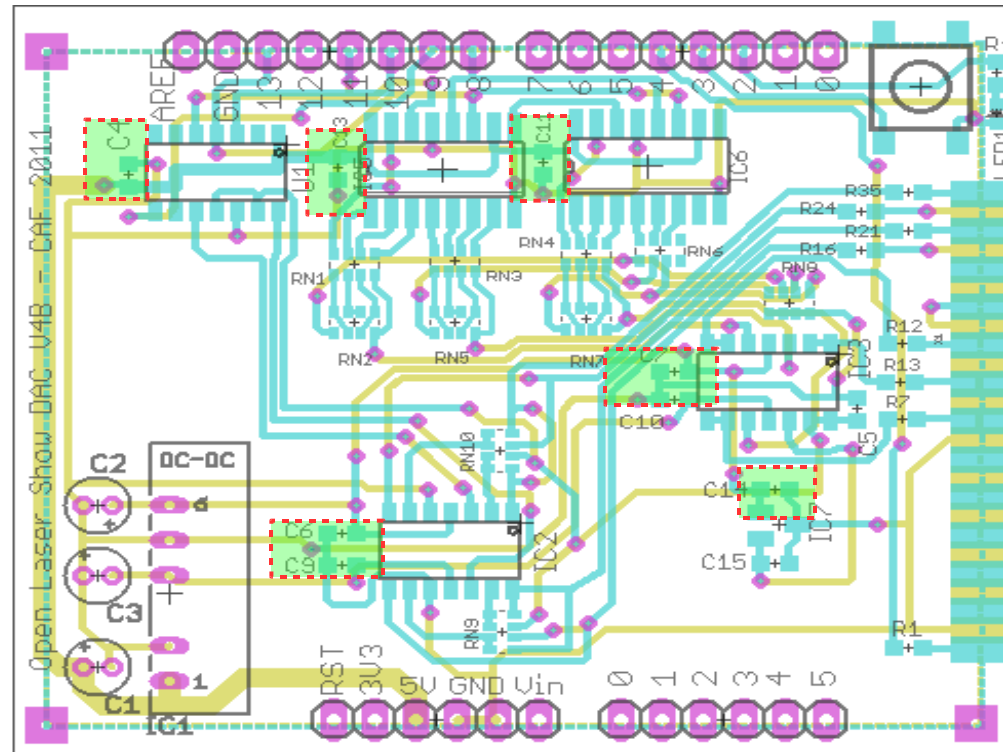


Notes: None.



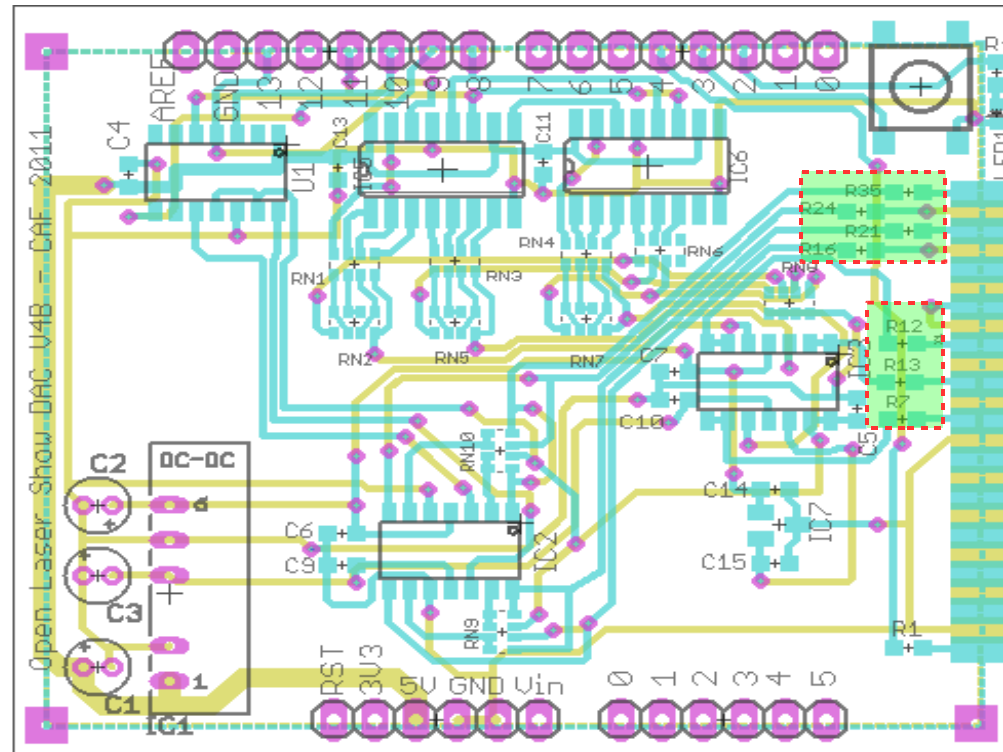
Page 7 of 17

C6, C7, C9, C10, C11, C13, C14, C15- 0.1 uF Capacitor 0603 – 445-1326-1-ND – 0.1 uF 0603



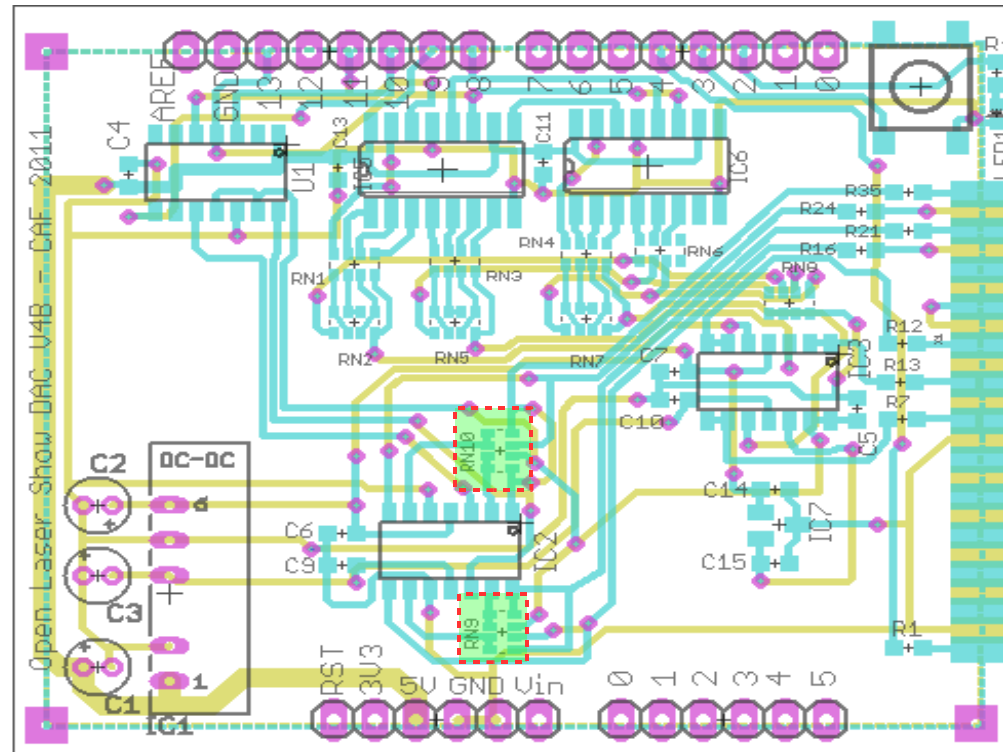
Notes: None.

R7,R12,R13,R16,R21,R24,R35- 75R Resistor 0603 – P75GCT-ND



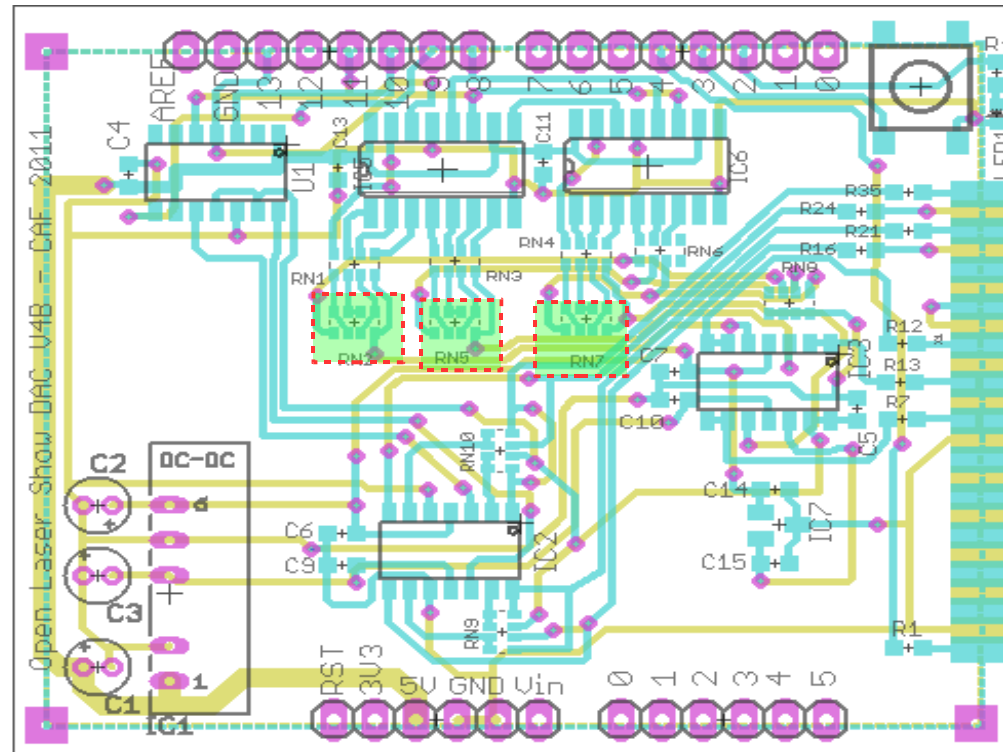
Notes: None.

RN9, RN10- RES ARRAY 10K OHM 4 RES 1206 1% (0603x4) – CRA6E810.0KACT-ND - CRA06E08310K0FTA



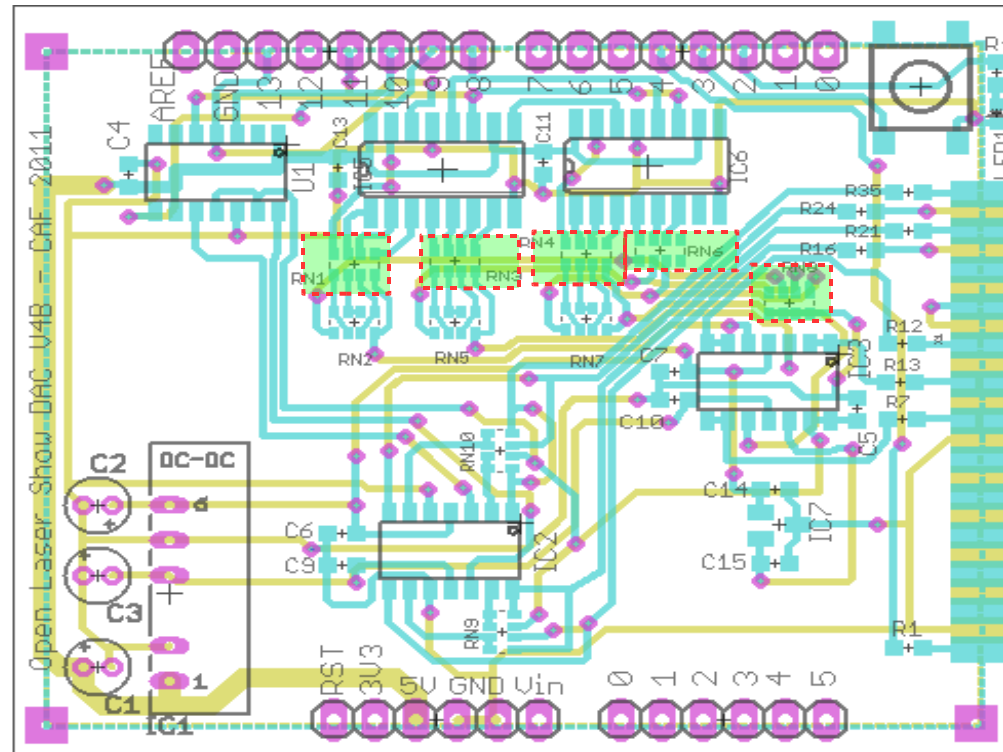
Notes: Please note that these are 1% resistor packs where as the ones used in the R2R color DACs are 5%. Do not mix them up.

RN2, RN5, RN7 - RES ARRAY 10K OHM 8TRM 4 RES SMD 5%(0603 x 4) – YC164J-10KTR-ND – YC164-JR-0710KL



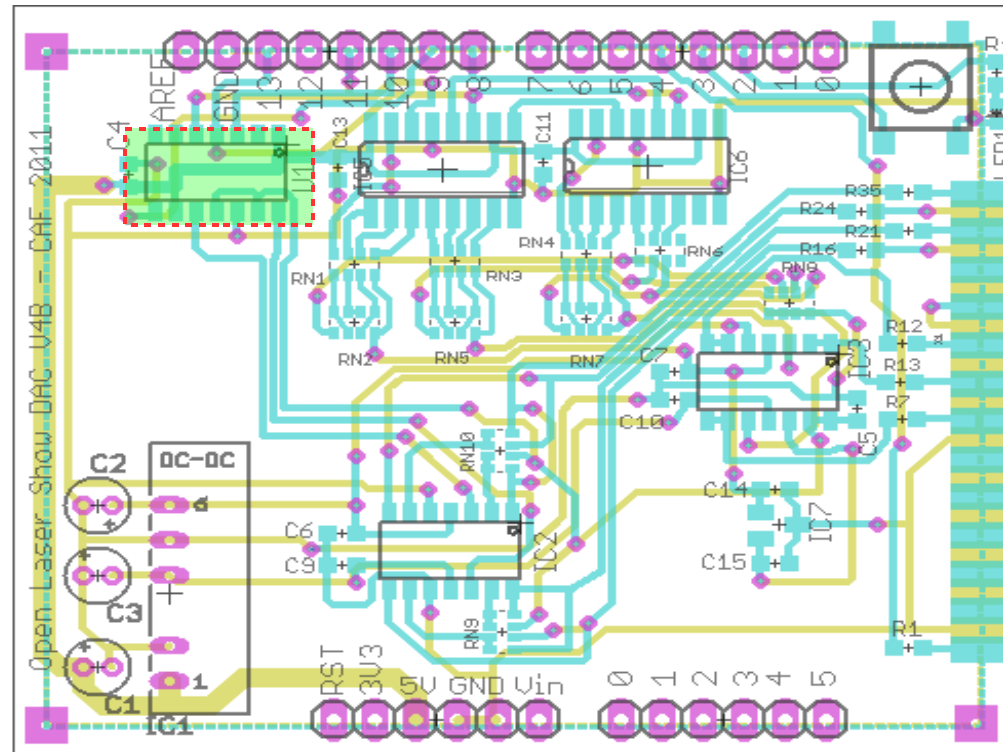
Notes: None.

RN1, RN3, RN4, RN6, RN8 - RES ARRAY 20K OHM 8TRM 4 RES SMD 5% (0603 x 4) – YC164J-20KCT-ND - YC164-JR-0720KL



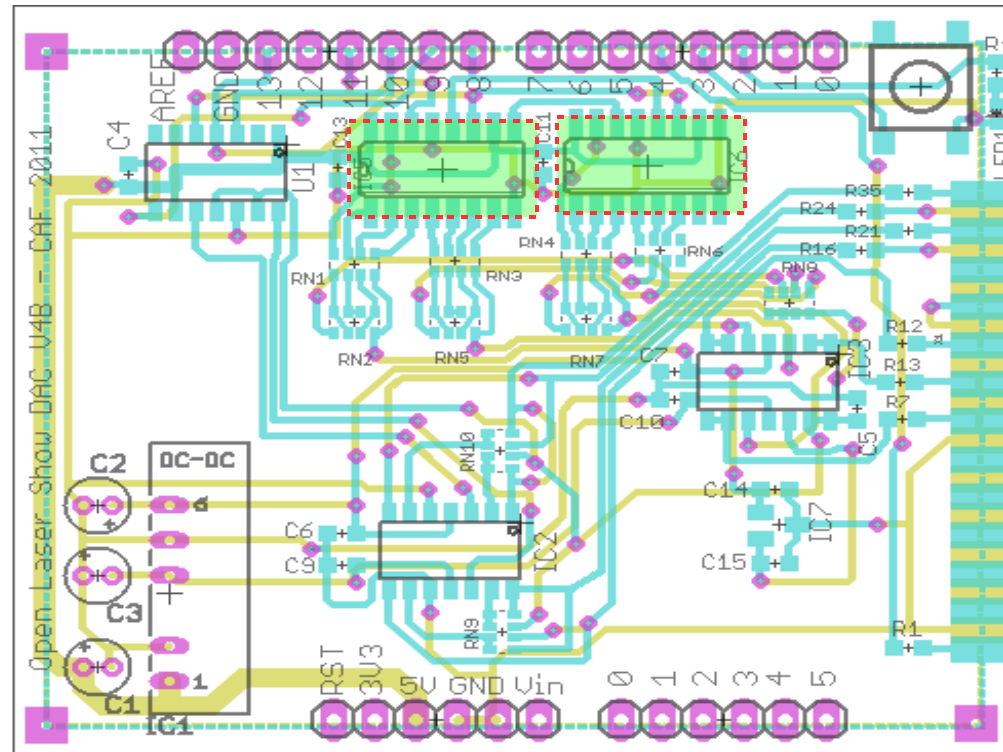
Notes: None.

U1 - 12 Bit Dual DAC Microchip - SPI - SOIC – MCP4922T-E/SLCT-ND – MCP4922



Notes: The dot on the board drawing represents pin 1 on the DAC.

IC5, IC6 - IC REGISTER SHIFT 8BIT 16-SOIC - 74VHC595M-ND – 74VHC595M

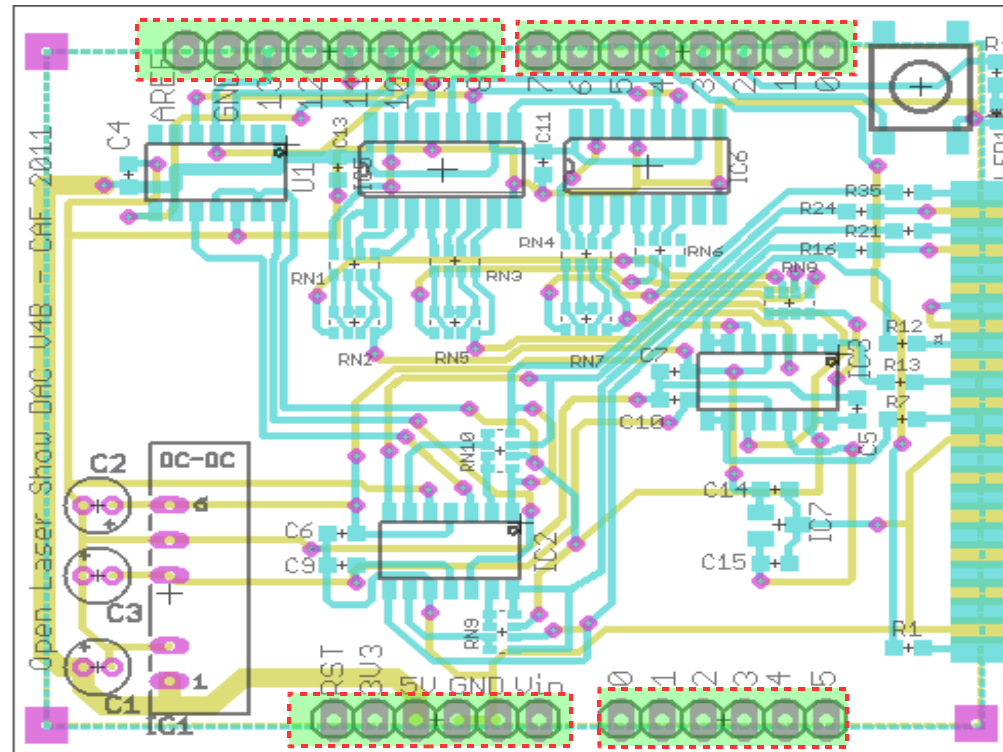


Notes: The dot on the board drawing represents pin 1 on the chip.



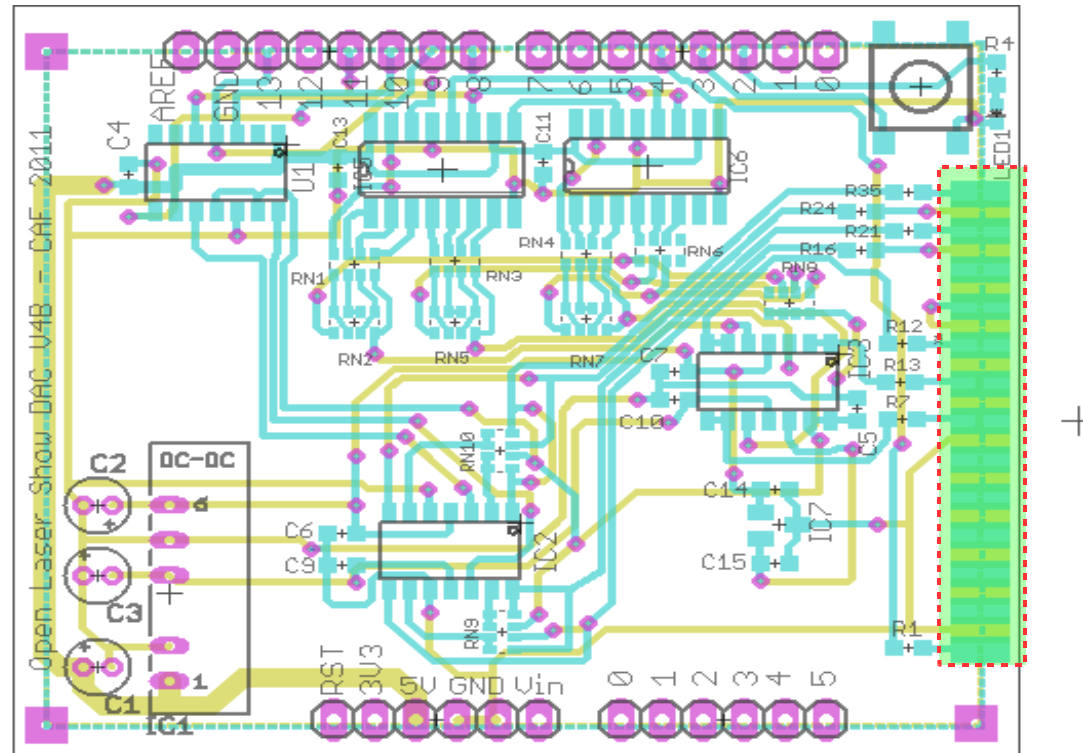
A diagram consisting of a large light blue rectangle. A solid blue horizontal bar runs across the top of the rectangle. In the top right corner of the light blue area, there is a red circle with a black outline.

U\$1, U\$2, U\$3, U\$4 - Shield Header - 1 x 36 Male Header Gold Plated .24" mating length – WM6536-ND



Notes: The single 36 pin header will have to be split into 2 x 8 sections and 2 x 6 sections. There will be a left over piece.

X1 – DB25 Female Solder Cup – L77SDB25S



Notes: The cups on the connector may have to be widened slightly using a screw driver or a scrap piece of circuit board. This connector is pressed on and then soldered. The top of the board is the top of the connector with pin 1.