



- VR1 Potentiometer - 500K ohm
- R1 Resistor - 10K ohm, 5 W
- R2 Resistor - 2M ohm, 1/2 W
- R3, R4 Resistor - 100 ohm, 1/4 W
- R5, R6 Resistor - 150K ohm, 1/4 W
- R7 Resistor - 82 ohm, 1/4 W
- C1 Capacitor - 36 uF, 950 V, ESR = 0.2
- C2 Capacitor - 0.1 uF, 600 V, Myler
- C3 Capacitor - 47 uF, 100 V, Kemet
- L1 Inductor, 30 uH

- D1 Diode - 1N5554, 1000V, 3A
- D2 Diode - 1N5416, 100V, 3A
- D3 Diode - 1N3600, 75V, 200 mA
- D4 Zener Diode - 1N4991, 240V, 5W
- Q1 Transistor - 2N2907, 40V, 0.6A
- Q2 SCR, 2N690, 600V, 16A
- RY1 Vacuum Relay, 26.5 VDC, 100 mA
- T1 Pulse Transformer, 10KV
- FL1 Xenon Flash Lamp

**SSY-1 Nd:YAG Laser
Pulse Forming Network and Trigger Schematic**