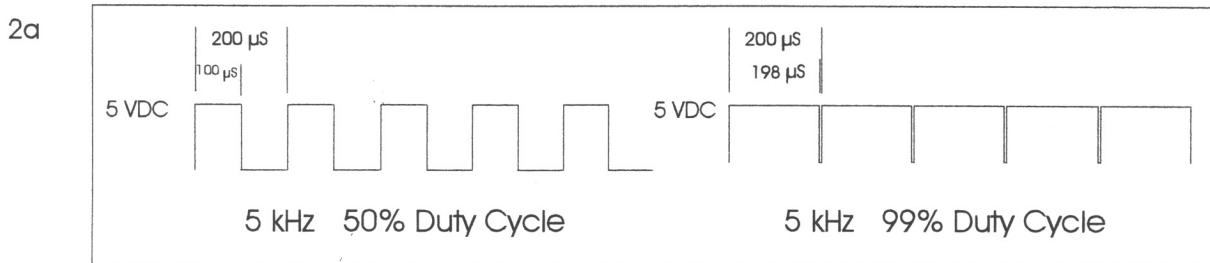


## Technical Reference Manual

### 2 *Laser Controller Output*

This laser power controller is used to digitally modulate the RF. amplifiers that excite the plasma within the resonating chamber of the laser, This is accomplished by using a clock frequency square wave of 5khz and varying the duty cycle of that square wave from 0-99%. Commonly referred to as a pulse width modulated signal.



### 3 *Gating Function*

The "Gate" is used to turn on and off the laser with a TTL. Logic high / low signal. This signal if externally generated should have a amplitude of 0 VDC for "Laser off" and +5 VDC for "Laser on"

You may use the +5 VDC available on pin one for gating the laser on

The gates' default is set low so the laser will not fire without a +5 VDC signal present

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