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ANALOG MODULES, INC.

MODEL 779A CW/PULSED HIGH CURRENT LASER DIODE DRIVER

HIGH POWER CW OR PULSED LASER DIODE DRIVER

- OUTPUT CURRENT 30 AMPS CW OR 120 AMPS PULSED
- IDEAL FOR HIGH POWER LASER DIODES
- COMPLIANCE VOLTAGE UP TO 140VDC
- WIDE PULSEWIDTH TO 1.0mS
- BUILT-IN PULSE GENERATOR
- TRANSMISSION LINE CONSTRUCTION

DESCRIPTION:



The **779A** Series laser diode drivers are designed to power high current laser diodes for applications such as laser pumping and illumination. A pulse generator with adjustable amplitude, width, PRF and current limiting is included. A CW enable and opto-isolated pulse input also provide for remote control. The 779A Series provides negative current for grounded anode emitters using a closed-loop current source.

SPECIFICATIONS:

External Controls Input Voltage +11V to +16VDC at 30mA typical Current 20A/V control input, current limit will -5V to -150VDC for laser drive limit maximum output current Enable/PW/PRF Opto-Isolated input at 10mA. Enable Output Current 1 to 30 Amps CW for CW mode and PW/PRF control for pulse mode. (Internal PW adjust will 1 to 120 Amps peak pulsed limit maximum PW in external pulse $4 \pm 1 \mu s$ at 120 Amps peak Risetime mode.) Pulse Flatness ±1% at 120 Amps peak 1V to 140VDC, depending on laser drive Compliance V Temperature 0° to 50°C (derated) input supply voltage Monitor 50mV/A, 6VDC max into \geq 10k Ω impedance Connections Protection Fast reverse polarity diode Current Control BNC Current limit Pulse Enable BNC External pulsewidth limit Low inductance connector with 1m Output Thermal shutdown flat conductor output cable **Internal Controls Current Monitor** BNC Current 1 to 30/120 Amps min., trimpot Power Terminal block Current Limit 10 to 30/120 Amps min., trimpot 100µs to 1.0ms min., trimpot. Pulsewidth Size 8.00" x 4.50" x 3.75" PRF 10Hz to 100Hz min., trimpot (add -A to part number) or 100Hz to 1kHz min., trimpot (add -B to part number)

Specifications subject to change without notice.

APPLICATIONS:

CW and Pulsed High Current Laser Diode Current Source

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MODEL NUMBER

		OUTPUT CURRENT
HIGH POWER	-5 to -150VDC	1 to 30 Amps CW or
INPUT VOLTAGE		1 to 120 Amps peak pulsed
INPUT VOLTAGE	+11 to +16VDC	779A-1

Input Connector: Current Monitor Output: Input Voltage:	1 to 140VDC Trimpot or external control voltage BNC for CW enable or external PW/PRF control 50mV/A, 6VDC max.
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