MODEL 782  
COMPACT CW LASER DIODE DRIVER

- OUTPUT CURRENT UP TO 4.0 AMPS CW
- IDEAL FOR HIGH POWER LASER DIODES
- COMPLIANCE VOLTAGE FROM 1.6 TO 2.7VDC
- COMPACT RUGGED DESIGN
- EXTERNAL CURRENT CONTROL
- 10-30VDC INPUT POWER

DESCRIPTION:

The Model 782 is a single channel, non-isolated, compact CW laser diode driver. The power input is 10-30V nominal with MIL-STD-704E characteristics. Output Current is adjustable from 0.2A to 4.0A with a Control Voltage from 0.0V to 0.5V. Connections via solderable post-type terminals. Unit to be delivered with PCB assembly mounted onto a heatsink.

SPECIFICATIONS:

### Input:
- Voltage: 10 to 30 VDC nominal input voltage. MIL-STD-704E characteristics.

### Output:
- Current: 0.2 to 4.0 Amps CW
- Voltage Compliance: 1.6 to 2.7V
- Ripple: ±0.2%

### Current Control
- Control voltage 0.0V (for minimum current) to +0.5V for 4.0A
- Transfer function linear within 10%; stability with respect to temperature, time, and input voltage better than ±2%.

### Shock/Vibration:
- Survive shocks up to 12g in any direction. MIL-STD-810 as applied to helicopter external stores.

### Temperature:
- Operating: -40° to +60°C
- Storage: -55° to +80°C

### Connections:
- Solderable posts.

### Size:
- 2.25" x 1.50" x 0.95"
- ≈ 3.5 Oz.

Specifications subject to change without notice.

APPLICATIONS:

**CW Laser Diode Current Source**

“In the event this commodity will be transferred to a “foreign person” as defined in 22 CFR 120.16, either outside or within the United States, a validated US State Department license is required.”
Typical Part Number: 782 =

- Output Current: 0.2 to 4.0A
- Voltage Compliance: 1.6 to 2.7V
- Current Control: 0.0 to 0.5V External Control

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<thead>
<tr>
<th>MODEL NUMBER</th>
<th>OUTPUT CURRENT</th>
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<tr>
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<td>0.2 to 4.0A</td>
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<table>
<thead>
<tr>
<th>INPUT VOLTAGE</th>
<th>+10 to +30VDC</th>
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