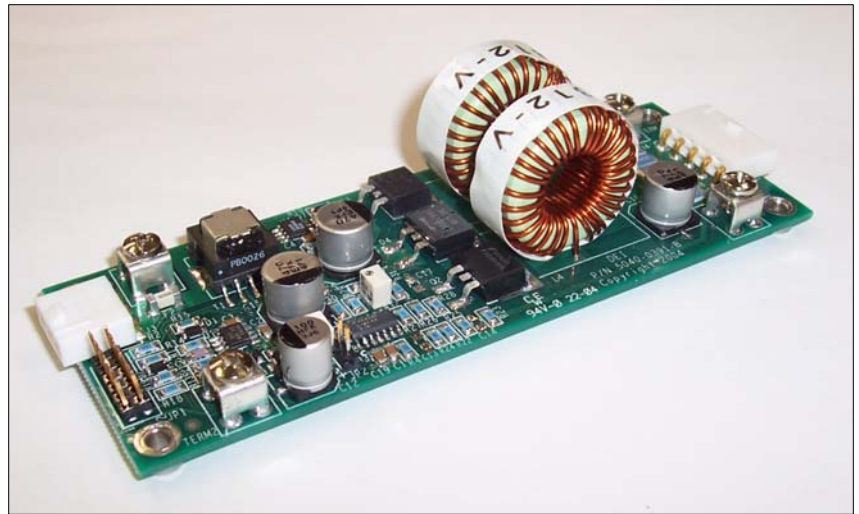


## PCO-6511 CW Laser & Diode Driver

The **PCO-6511** is a compact and economical OEM style CW laser and diode driver.

- Variable Output Current from 0.5A to 10A
- Compliance voltage up to 10V



Parameter	Value
Amplitude Range	0.5A to 10A
Diode forward voltage	10V maximum
Ripple Current	<50mA
Vcc Input	12 to 16VDC
Means of adjustment	Board mounted trimpot or external 0 to 4.095V analog voltage program, Jumper selectable
5.0V Reference output current	5mA maximum
Optional External Set point	0 to 4.095V (remove JP2 jumper to use)
Shutdown	0 to 5.5V
I monitor	4.06V=10A
Crowbar	18V maximum (Hold low for output)
Mounting Holes	#6 Holes
Control Connector	216 .2"centers header (Berg #65611-172)
Support Power Input Connectors	#6 screw terminals or 3 pin single row header (Molex #5569)
Output Connectors	#6 screw terminals or 5 pin single row header (Molex #5569)
Dimensions (H   W   D)	1.4   2.0   5.5 inches
Weight	Approximately 0.3 lbs.

### Operation Notes:

To operate in external set mode remove jumper from JP2  
 Operation above 8Amps requires forced air cooling.



## I/O Connector Data:

Connector	Description	Notes
Term 1	Vcc	Input (Internally Connected to J3 pin 1)
Term 2	Ground	
J3 pin 1	Vcc	Input (Internally Connected to Term 1)
J3 pin 3	Ground	
Term 3	I out	Output (Internally Connected to J4 pins 1,2)
Term 4	I return	Common with Ground
J4 pins 1,2	I out	Output (Internally Connected to Term 3)
J4 pins 4,5	I return	Common with Ground
JP1 pin 2	+5.0V Reference	Output
JP1 pin 4	Optional External Set point	0 to 5V Input
JP1 pin 6	Vcc	For Reference only
JP1 pin 8	Shutdown	Input
JP1 pin 10	I monitor	Output
JP1 pin 12	Crowbar	(Hold low for output)
JP1 odd pins	Ground	
JP2 pins 1,2	Jumper together for internal set point adjustment	To increase output current adjust R20 clockwise.

Laser Diode not included. Specifications subject to change without notice.

