

Precision 500 mA Continuous Wave Laser Diode Driver (LDD-CW-500)



Key Points

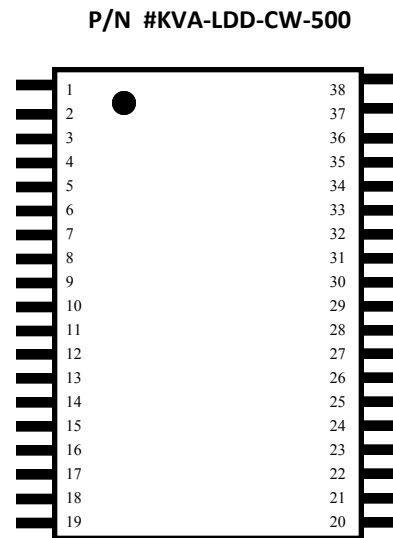
- **Low Noise**
- **5 VDC Operation**
- **High Stability**
- **Low Ripple < 400 μ A**
- **No Heat Sink Required @ 500 mA**
- **Enable Pin**
- **Soft Start Enable**
- **PCB Mountable**

The 500 Milli-Ampere Continuous Wave Laser Diode Driver (LDD) provides precision control of the steady state drive current to the laser diode. The LDD provides slow ripple (< 400 μ A) over the full current range 0 to 500 mA. The LDD provides single supply operation at 5 VDC with milli-ampere resolution and stability. The LDD utilizes a soft start configuration.

Characteristics

Parameter	Rating	Units
Storage Temperature	-40 to 100	C
Operating Temperature	0 to 70	C
Operating Voltage (1)	+5	VDC
Maximum Current	500	mA
Current Ripple (Maximum)	400	μ A
Accuracy	± 1	mA
Stability	± 1	mA
Supply Current Quiescent (Max)	10	mA
Power Supply Rejection Ratio	102	dB
Soft Start Risetime (Minimum)	5	μ s
Enable Signal	3.3	VDC
Current Adjust (1mV/mA)	500	mV
Voltage Reference	500	mV

Pin Function	Pin Number
VCC	4,5,6
Ground	1,2,3
3.3 VDC	26
Enable	14
Reference Voltage	16
Current Adjust	15
Enable Voltage	22
Laser Diode Anode	34, 35, 36
Laser Diode Cathode	30, 31, 32
No Connect	7,8,9,10,11,12,13,16,17,18,19
No Connect	20,21,23,24,25,27,28,29,33,37,38



Dimensions: 2.2" x 1.30" x 0.35"

*Leads: Spacing: 0.100" Center to Center
1.10" Row to Row*

