

Figure 1.1. Top View of ATLS10A216



Figure 1.2. 3D View of ATLS10A216



Figure 1.3. Bottom View of ATLS10A216



Figure 1.4. Side View of ATLS10A216

FEATURES

- Wide Input Voltage Range: 5.5V ~15V
- Wide Output Voltage Range: 0.2V_{VPS} to 0.8V_{VPS} (input voltage)
- High Current Capability: 10A
- High Efficiency: ≥90% (I_{OUT}=10A@V_{LDA}=10V&V_{VPS}=15V)
- Wide Modulation Bandwidth: DC ~20kHz
- Compact Size: 27.4×21×5.7 (mm)
- Dual Independent Current Set Ports: LISH and LISL
- Direct Digital Modulation Control: PCN
- Three Control States: Shutdown, Standby and Operation
- Low Output Current Noise: < 12μA_{P-P}@0.1Hz~10Hz
- High Current Stability: < ±600μA@10A &− 20°C~80°C
- Low Output Ripple Voltage: < 6mV@700kHz
- Fully Shielded
- 100 % Lead (Pb)-free and RoHS Compliant

APPLICATIONS

Drive one or multiple laser diodes for DPSSL, EDFA, and fiber lasers with low noise and high efficiency.

DESCRIPTION

This laser driver, ATLS10A216, is an electronic module that has all the valuable and important, but often difficult to achieve simultaneously, features: wide input and output voltage range, high output current capability, high efficiency, low output noise (but it has an output 4mV_{p-p} ripple voltage at 700kHz), wide modulation bandwidth, and small size. The wide output voltage range, 0.2V_{VPS} ~ 0.8V_{VPS}, allows driving one or multiple serial laser diodes at the same time, for up to 10A well controlled current at high efficiency. The extremely low noise between DC ~ 20kHz and low DC current drift make it ideal for driving diode pumped single mode laser diodes to achieve mode-hop-free and narrow optical wavelength drift, thus, long coherent length. Because of the high efficiency, the laser driver generates small amount of heat, thus, no heat sink is necessary for normal operation. The fully shielded case blocks all the incoming and outgoing EMIs (Electro-Magnet Interferences). Therefore, this laser will not interfere other surrounding electronics, nor will be interfered by them. The small package saves valuable PCB space in laser systems. Figure 1 shows physical photo of the ATLS10A216D.

This laser driver has two current set ports digitally controlled to switch between them for setting the output current. This feature allows modulating the laser digitally with 2 preset current values.

The actual laser current and laser driver temperature are monitored by dedicated ports. In case the laser driver temperature exceeds the limit, 120°C, the laser driver will shut down the output stage by itself and force the laser drive into Standby Mode. There is a loop good indication output to tell if the laser driver works ok.

The laser driver has 3 states: Operation, Standby and Shutdown. Under Standby mode, all the laser driver

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components works except the output stage, see Figure 4. Under Shutdown mode, all the components of the laser driver stops working and the power supply current is reduced to < 3μA.

This laser driver generates a high accuracy high stability low noise, 5μV_{P-P}, < 1μV_{RMS}, < 8ppm/°C, 2.5V<±2mV, voltage reference output which can be used for setting the output current and also be used as the reference voltage for the ADCs (Analog to Digital Converters) and/or DACs (Digital to Analog Converters).

The ATLS10A216 uses a constant frequency high efficiency PWM output stage. Its switching signal is taken out through a buffer at the SYNO port, pin 1, which can be used by other switch mode electronics as the trigger signal to avoid frequency beating interference, if the free-run frequency is around 700kHz.

Warning:

1. The output voltage must be within 20% to 80% of VPS.

2. Both the surface mount and the through hole types of packages can only be soldered manually on the board by a solder iron of < 310°C (590°F), do not use a reflow oven to solder this laser driver.

For noise sensitive applications, please be aware that this laser driver has very low noise between DC to 20kHz, but a little high ripple output voltage, sine-wave, 4mV_{P-P}, at the switching frequency, 700kHz.

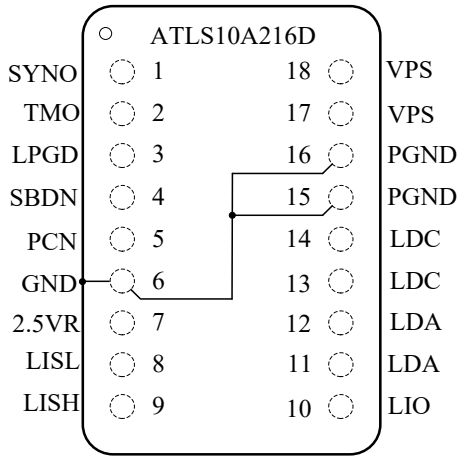


Figure 2. Pin Names and Locations

Figure 2 is the top view of the ATLS10A216, which also shows the pin names and locations. Its thickness is 4.5mm. The pin functions and specifications are described in Table 1 below. Note that the metal case is internally connected to ground.

Table 1.Pin Function Descriptions

Pin #	Name	Type	Description
1	SYNO	Digital Output	Synchronization Output. This is a digital output signal with internal impedance of 100Ω by passed by 1.5MHz low pass filter. This output is triggered by the PWM output stage of this laser driver and can be used to synchronize other switch mode electronics to avoid the beating interference with their free-run frequencies if their free-run frequencies are close to 700kHz. If the free-run frequency of other electronics is far away from 700kHz, no need to use this pin.
2	TMO	Analog Output	Temperature Output pin. This pin indicates the controller temperature. The relationship between the output voltage and the temperature is: $T = -1525.04 + 10^3\sqrt{2.4182 + \frac{1.8015 - V_{TMO}}{3.479}}(°C)$ (1) or, $V_{TMO} = 1.8015 - 3.479\left[\left(\frac{T + 1525.04}{10^3}\right)^2 - 2.4182\right]$ (2) where V_{TMO} is the voltage on the TMO pin. This formula can be approximated by a linear equation with about 1% error: $T = 192.5576 - 90.1040 \times V_{TMO}(°C)$ (3) or, $V_{TMO} = 2.1365 - 0.0111 \times T(°C)$ (4) The maximum output current of the TMO pin is 1μA.
3	LPGD	Digital Output	Loop Good indication. When the laser driver's output current equals to the set-point current value, and there is no short nor open circuit at the output, this pin is pulled up high by an internal 3kΩ resistor to an internal 4.5V power supply as shown in Figure 3; when the output

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Pin #	Name	Type	Description
			current is not equal to the set-point current, such as there is an open circuit at the output, or the load has too high a resistance that even the output voltage reaches the power supply voltage, the output current is still lower than the set-point value, this pin is pulled low by an open drain MOSFET of which Rdson < 500Ω. When outputting the low value, the sinking capability is < 0.5V at 1mA.
4	SBDN	Analog/Digital Input	Standby and Shutdown Control. This pin has 3 states: between 0V ~ 0.4V, it shuts down the entire laser driver; between 2.1V ~ 2.4V, it sets the laser driver to standby mode; between 2.6V ~ 15V, it sets the laser driver to operation mode. The input current on this pin is < 2μA.
5	PCN	Digital Input	Pulse Control input. This pin toggles the laser output current to change between the pre-set two values: a low value set by the LISL pin @ V_{PCN} = 0V ~ 0.4V and a high value set by the LISH pin @ V_{PCN} = 1.4V ~ 4.5V. This PCN pin is pulled high to an internal 4.5V rail by a 1MΩ resistor and there is a serial 20kΩ resistor between PCN and the electronic switch, see Figure 3. Between 0V ~ 4.5V, the pull up resistor causes most of the current on this pin, the electronic switch input current is < ±1μA. The maximum voltage on this pin is 15V, at which the pull down current will be caused by the serial 20kΩ clamped by an over voltage protector of 5V, the current will be (15V –5V)/20kΩ = 500μA. The rise and fall time of the output is 28μS when PCN pin is switched.
6	GND	Signal Ground	Signal Ground pin. Connect ADC and DAC grounds to here. When using POTs (potentiometer) to set the output currents, connect the ground terminal of the POTs to here.
7	2.5VR	Analog Output	Voltage Reference 2.5V output. It can source and sink up to 10mA output current, with a very low 5μV_{P-P} noise between 0.1 to 10Hz and < 6ppm/°C stability. Under Standby Mode, this pin is still working.
8	LISL	Analog Input	Laser current low value setting voltage. There is a10MΩ input resistor tied to GND. Setting it from 0V to 2.5V will set the laser lower current from 0 to 10A linearly. The current set by this pin can be higher than the current set by the LISH port on pin 7, the reason calling it "low" is because when PCN, pin 3, is low, the laser driver will output the current set by this pin. The input bias current of this pin is < 0.1μA, in addition to the 10MΩ resistor tied to GND. The maximum input voltage on this pin is 4.5V. It is recommended to use the 2.5VR port, pin 5, as the voltage source for setting the output current.
9	LISH	Analog Input	Laser current high value setting voltage. For this pin, everything is the same as above except that this pin sets the output current when PCN, pin 3 is high.
10	LIO	Analog Output	Laser Current Output indication. 0V to 2.5V indicates the laser current being from 0 to 10A linearly. The maximum sourcing current and sinking current of LIO is 40mA.
11	LDA	Analog Output	Laser Diode Anode. Connect it to the laser diode anode terminal. The maximum current of this pin can go up to 10A. When doing layout, do not use a thin and long PCB track, otherwise, the inductance might be too high and oscillation may occur.
12	LDA	Analog Output	The same as Pin 11.
13	LDC	Analog Output	Laser Diode Cathode. Connect it to the laser diode cathode terminal. The current on this pin can go up to 10A. Use thick and short PCB track for this pin to minimize the inductance to avoid oscillation or ringing. This pin has a low voltage potential, when the output current is 10A, the potential is 20mV above PGND.
14	LDC	Analog Output	The same as Pin 13.
15	PGND	Power Ground	Power ground pin. Connect this pin directly to power supply return path line, 0V. The maximum current on this pin can go up to 10A.

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Pin #	Name	Type	Description
16	PGND	Power Ground	The same as Pin 15.
17	VPS	Power Input	Power supply voltage. The driver works from V_{VPS} = 5.5V ~ 15V. The maximum current can go up to 10A.
18	VPS	Power Input	The same as Pin 17.

Table 2. Checking Calculation

Temperature (°C)	V_{TMO} (V) in equation (2)	V_{TMO} (V) in equation (4)
−40	2.5420	2.5811
0	2.1231	2.1371
25	1.8557	1.8596
40	1.6931	1.6931
80	1.2520	1.2491
100	1.0272	1.0271
125	0.7424	0.7496

Table 3. Thermal Information

THERMAL METRIC		Value	Unit
$R_{\theta IA}$	Internal-to-ambient thermal resistance	36	°C/W
$R_{\theta IC}$ (top)	Internal -to-case (top) thermal resistance	7.5	°C/W
$R_{\theta IB}$	Internal -to-board thermal resistance	24.5	°C/W
$R_{\theta IC}$ (bot)	Internal -to-case (bottom) thermal resistance	4	°C/W

Note: The above values have a 20% margin of error.

SPECIFICATIONS

Table 4. Characteristics ($T_{AMBIENT}$= 25°C)

Parameter	Value	Unit
Power efficiency I_{OUT} = 10A, V_{LDA} = 10V & V_{VPS} = 15V.	90	%
Maximum output current	10	A
Low frequency output current noise, peak-to-peak value, 0.1Hz to 10Hz,	<15	μA_{P-P}
Stability @ 10A &–20°C ~80°C	<±0.01	%
	<±650	µA
Laser current control signal at LISL and LISH	0~2.5	V
LISL and LISH control accuracy	±0.1	%
Laser current indication signal at LIO	0~2.5	V
LIO indication accuracy	±0.2	%
Reference output voltage	2.5± 0.004	V
Output voltage range at LDA	$0.2V_{VPS}$ to $0.8V_{VPS}$	V
Output voltage at LDC	$0.002\times I_{OUT}$	V
Power supply voltage range	5.5 ~15	V
Maximum power supply voltage	15	V
Start-up time upon releasing the SBDN pin above 2.6V	20	ms

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Shutdown time upon pulling the SBDN pin down	20	µs
Standby current	8	mA
Shutdown current	<2	µA
Operating case temperature	–40 ~ 110	°C
Operating ambient temperature	–40 ~ 85	°C

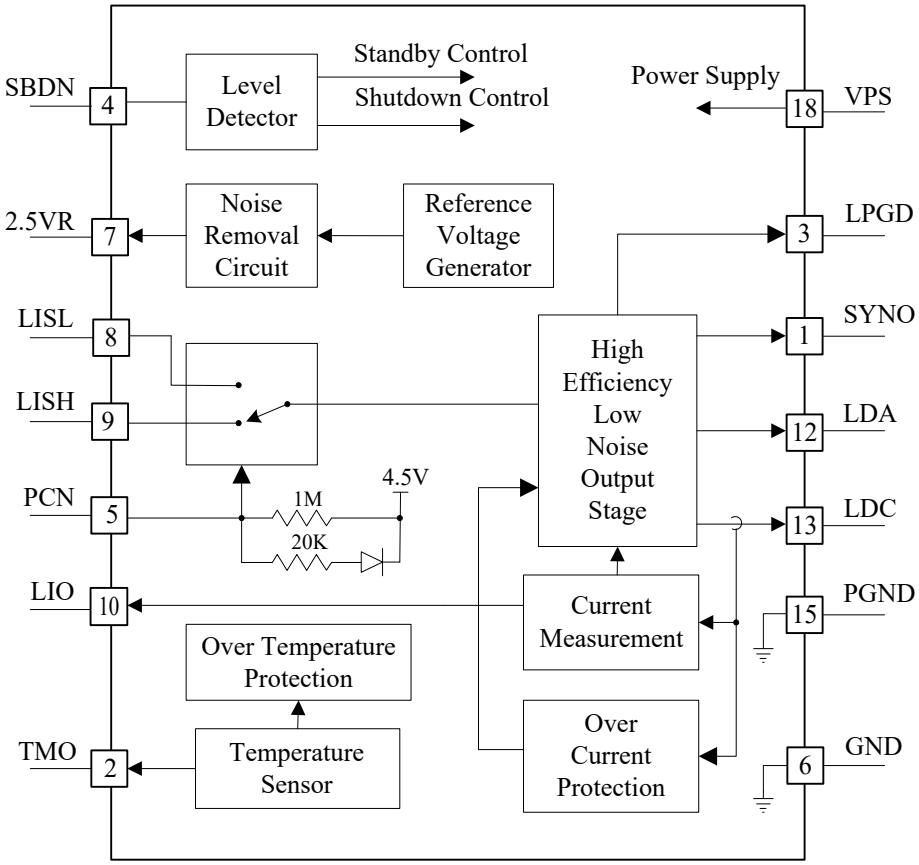


Figure 3. Internal Block Diagram of ATLS10A216

OPERATION PRINCIPLE

The block diagram of the driver is shown in Figure 3.The signal from pin 4, SBDN, is sent to a level detector circuit. As shown in Figure 4, upon detecting signal level between 0V to 0.4V, the shutdown output is activated; it shuts down the whole laser driver and drives the laser driver into shutdown Mode; upon detecting the level to be between 2.1V and 2.4V, the standby signal is activated, it put the controller into Standby Mode; when the signal is between 2.6V and above, the controller is driven to Operation Mode.

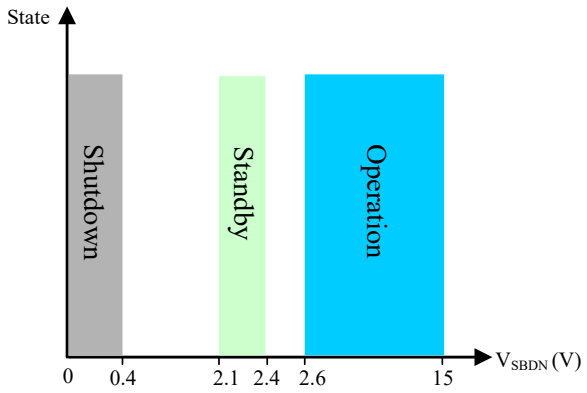


Figure 4. Input Control

At pin 2, TMO, its value comes from a temperature sensor. The

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voltage at this pin reflects the internal temperature of this driver. The relationship between the output voltage and the temperature is shown in Figure 5.

There is a temperature protection circuit, upon detecting the temperature to be >120°C, it will force the laser driver into Standby Mode. The laser driver reinitiates the power up sequence when the junction temperature drops below 110°C.

The voltage reference circuit provides internal voltage reference for the driver, its output is taken out after a noise removal circuit at 2.5VR port, pin 7.

At pin 8 and pin 9, there are 2 ports for controlling the output current: LISL and LISH. The former sets the output current when PCN, Pulse Control, pin 5, is at low level, 0V to 0.4V; the latter sets the output current when PCN pin is at high level, 1.4V to 4.5V.

On PCN, pin 5, there is a 10MΩ resistor tied to 4.5V. Therefore, if leaving this pin open, it is set to 4.5V, a high logic level, thus, LISH is in control. There is a 20kΩ resistor in series with a diode, connected between PCN pin and the 4.5V internal voltage. When the PCN pin voltage is above 4.5V, the 20kΩ resistor pulls down the current on PCN pin. The circuit is shown at Figure 3.

Both LISH and LISL pin set the output current without any offset voltage. The relationship between the voltage and the output current is:

I_{OUT} (A)= V_{LISH} (V)/2.5 (V)×10 (A) , or

I_{OUT} (A)= V_{LISL} (V)/2.5 (V)×10(A);

V_{LISH} (V) = I_{OUT} (A)/10 (A)×2.5 (V), or

V_{LISL} (V) = I_{OUT} (A)/10 (A)×2.5 (V),

Where I_{OUT} is the output current of the laser driver, V_{LISH} or V_{LISL} represents the voltage on the LISH or LISL pin respectively, in volt.

The LIO port, pin 10, outputs an analog voltage that is proportional to the actual output current. When the output current is 0A, the LIO voltage is 0.1V; when output current is 10A, the LIO voltage is 2.5V. The relationship is:

V_{LIO} (V) = I_{OUT} (A)/10 (A)×2.5 (V);

I_{OUT} (A) = V_{LISL} (V) /2.5 (V)×10 (A);

V_{LIO} is the voltage on the LIO pin.

The waveform of LIO vs. LISH, LISL and PCN is shown in Figure 8.

The output stage is designed to achieve low noise, high efficiency, and relatively high modulation speed. It has an over current protection circuit. There is a soft start circuit which increases the output current slowly at the start up time and shuts down the current quickly.

The LPGD pin indicates the control loop status. When this pin goes high, >2V, the control loop is working properly, i.e., the output current equals to the desired value, V_{LISH} or V_{LISL} = V_{LIO}; when this pin goes low, <0.3V, the laser driver is not working properly, there might be a short or open circuit at the output, or the laser driver is protected by the over temperature protection circuit.

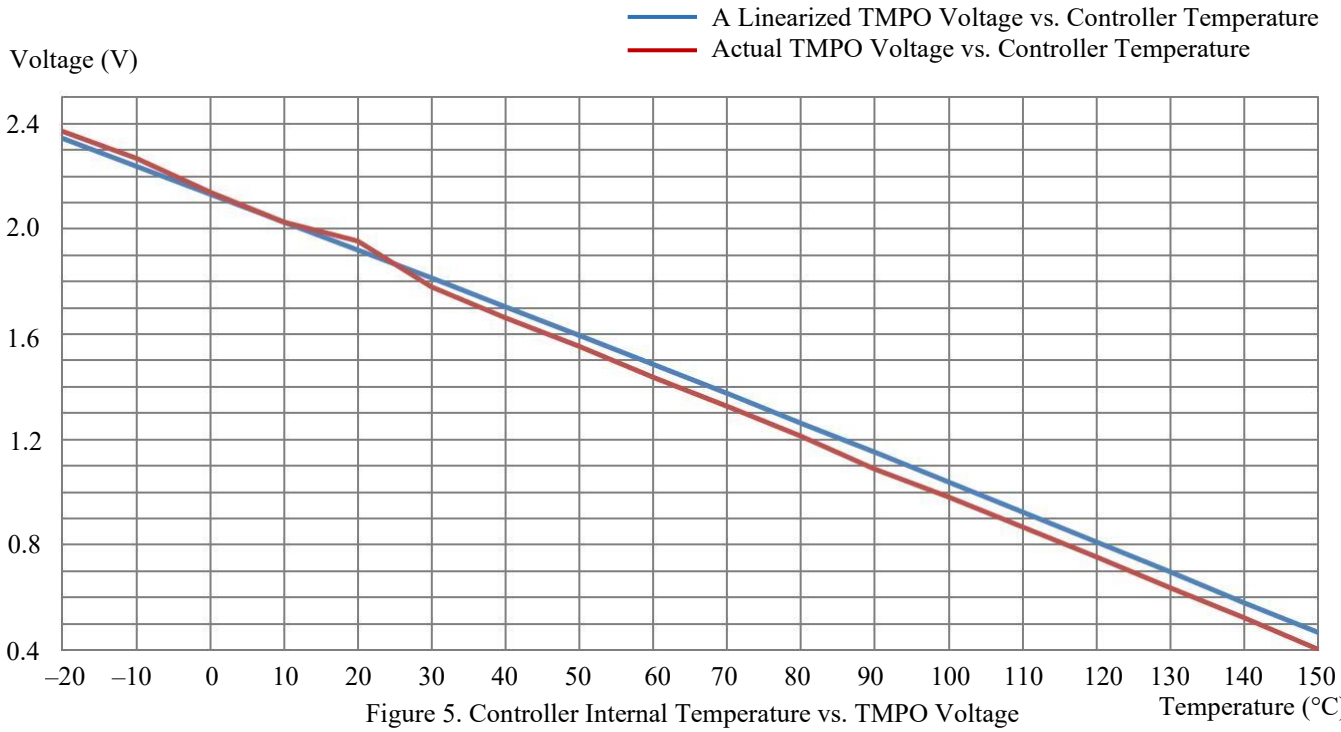


Figure 5. Controller Internal Temperature vs. TMPO Voltage

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APPLICATION INFORMATION

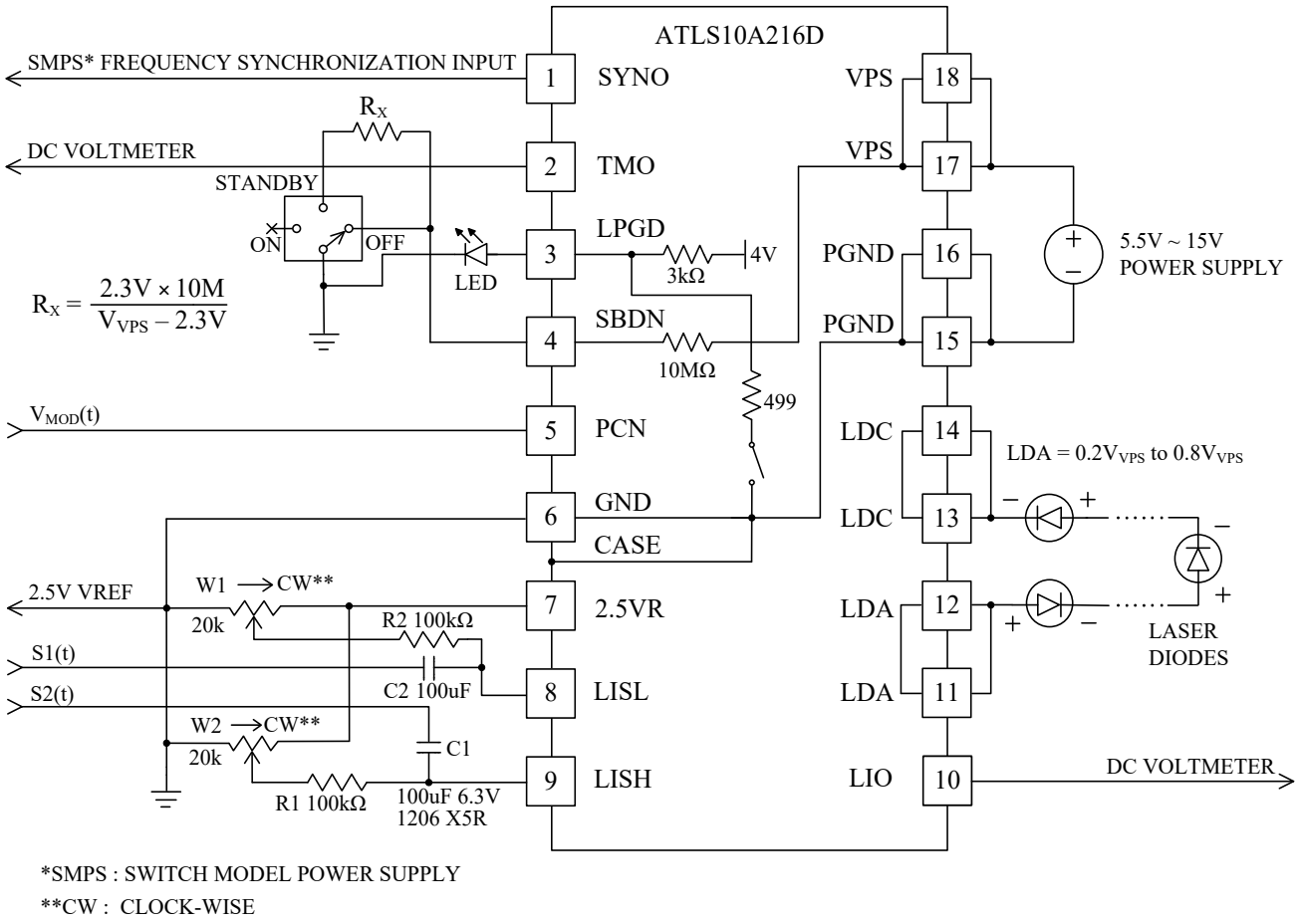
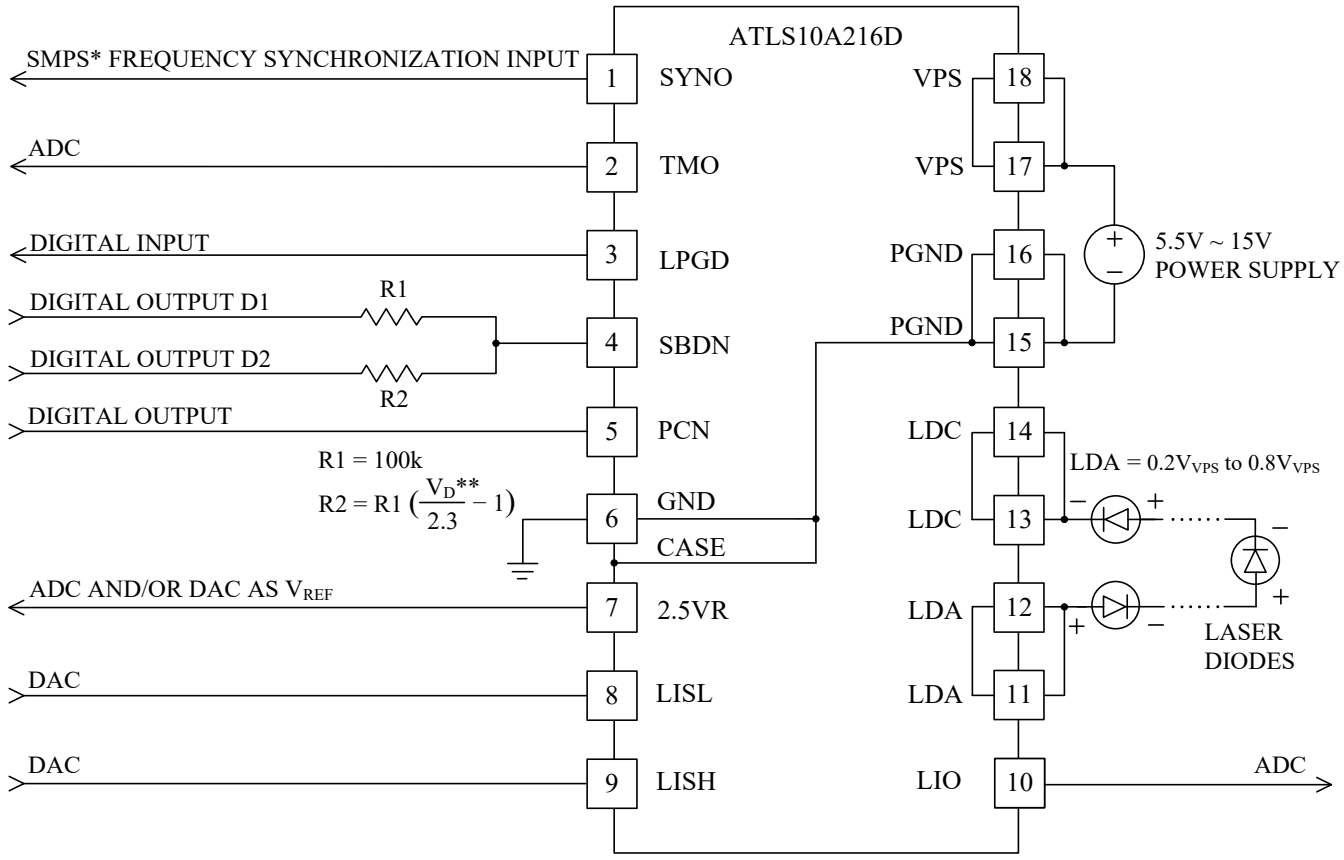


Figure 6. Stand-Alone Application Schematic

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*SMPS: SWITCH MODEL POWER SUPPLY

**V_D: THE OUTPUT VOLTAGE FOR D1 & D2 SIGNALS

Figure 7. Micro-Controller Based Application Schematic

Figure 6 shows a typical stand-alone application circuit. Figure 7 shows a micro-controller based application schematic.

Table 5 shows the relationship between Digital D1, D2, and laser driver state. Refer to Figure 4.

Table 5.

Digital Output D1	Digital Output D2	Laser Driver State
0	0	Shutdown
0	1	Standby
1	0	Note
1	1	Operation

Note: For the input state D1=1 and D2=0, the controller's state is depending on the output voltage at SBDN pin:

$$V_{SBND10} = \frac{R2}{R1 + R2} \times V_D$$

$$V_{SBND01} = \frac{R1}{R1 + R2} \times V_D$$

Where, V_D is the logic1 output voltage for D1 & D2 signals.

Digital signal V1 and V2 control the laser driver into Shutdown, Standby or Operation mode. The starting up time delay is about 20mS and the shut down time is about 20µS.

It is worth mentioning that to achieve high speed and low distortion digital modulation, one can use the LISL pin to set a current that is a little lower than the threshold current of the laser diode to turn off the laser beam, such as half of its value, use the LISH pin to set the laser current when the laser diode is turned on. In this way, the laser beam is turned on and off, while the driver control loop is always kept on, so that the output stage is always under control, not distortion is caused by turning on/off the output stage.

When no modulation is needed, one can leave PCN unconnected; LISL pin connects to GND, and use LISH to set the output current.

In Figure 6, the LED is used to indicate laser diode status. When LPGD pin is high, > 2V, the laser diode control loop is working

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properly. When LPGD pin is low, <0.3V, the laser diode control loop is not working properly, there might be a short or open circuit at the laser diode, or the laser driver is put into Standby or Shutdown mode. The LPGD pin can also be connected to a digital input pin of a micro-driver, when software/firmware is utilized in the system. The equivalent circuit of this pin is a 3kΩ resistor pulling it up to 4.5V rail and an open drain FET, 500Ω, pulling it down to the ground. The pull-up current can be increased by connecting an external pull-up resistor between LPGD and VPS. Tie this added additional pull up resistor to a 3.3V or 5V power supply if they are available. Make sure that the pull up current is not too high, otherwise, the internal open drain FET cannot pull-down the LPGD pin low enough to turn off the LED.

The laser diodes are connected between LDA and LDC pins. It is worth mentioning that the power supply return terminal should be connected to the pin 15 PGND.

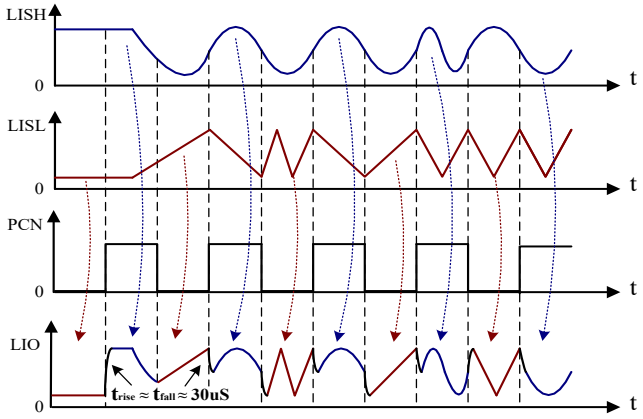


Figure 8. Digitally Controlled Analog Modulation Principle

Minimizing the Output Noise

The ATLS10A216 has extremely low output noise; care must be taken in using this laser driver to achieve this lower noise performance. One of the noise sources is the beating frequency interference from other power mode electronics, such as another laser driver, TEC (Thermo-Electric Cooler) controller, or power supply. There are 2 ways to avoid the frequency beating: set the switching frequencies of other electronics to be far away from the switching frequency of the laser driver, 700kHz, or synchronize the other electronics switching with this laser driver. For this purpose, there is a SYNO pin, which can be used by other electronics as the switching trigger signal.

The driver can be turned on and off by setting the SDN pin high and low respectively. It is recommended to turn the driver on by this sequence:

To turn on: turn on the power by providing the power supply voltage to the driver on VPS pin, turn on the driver by releasing the SDN pin.

To turn off: turn off the driver by lowering the voltage of SDN pin, turn off the power by stopping the voltage supply on the VPS pin.

When not controlling by the SDN pin: leave it unconnected and turn on and off the driver by the power supply.

Adjusting the Output Current

The output current is set by adjusting W1, which sets input voltages of LISL and LISH, pin 6 and 7. The output current will be:

I_{OUT} (A) = 4×V_{LISL} or 4× V_{LISH} (A).

LIS can also be set by using a DAC to replace the W1 in Figure 6. Make sure that the DAC has low output noise.

Monitoring the Output Current

The output current of the driver can be monitored by measuring the voltage on the LIO pin. This feature is very useful for micro-driver based system where the ADC is available and monitoring the current in real time is required. This pin provides a very low noise voltage signal and is proportional to the output current:

I_{OUT} (A) =4× V_{LIO} (A).

For example, when the output signal is 2.5V, the output current is 10A.

LIO can be used to drive an ADC directly, and also be measured by a multi-meter.

Driver Power Consumption

The best way for arranging the heat sinking for the driver is as follows: transferring the heat by sandwiching a piece of thermal conductive pad between the top metal surface of the laser driver and the internal metal surface of the final product as shown in Figure 9.1 and 9.2 below. The recommended thickness of the thermal conductive pad in Figure 9.1 is 1~4mm, and in Figure 9.2 is 0.5mm. ATI also provides a series of thermal conductive pads, click here for more information.

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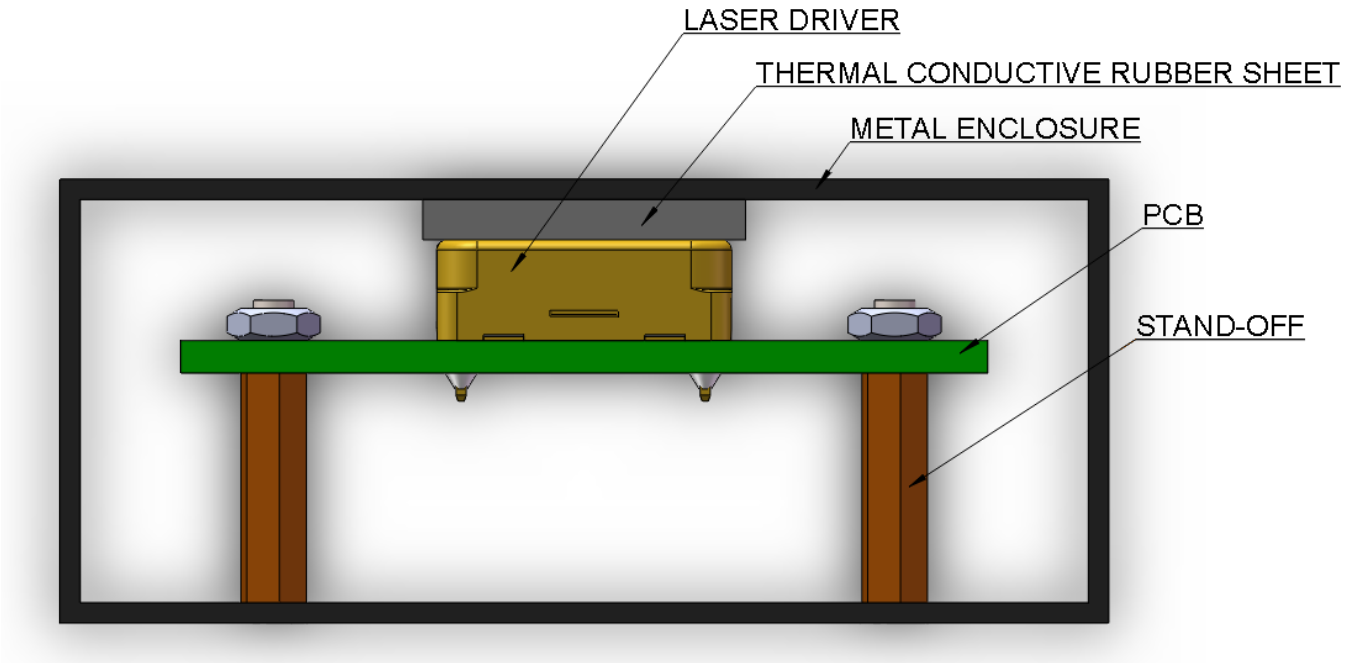


Figure 9.1 Transferring Heat with Metal Enclosure

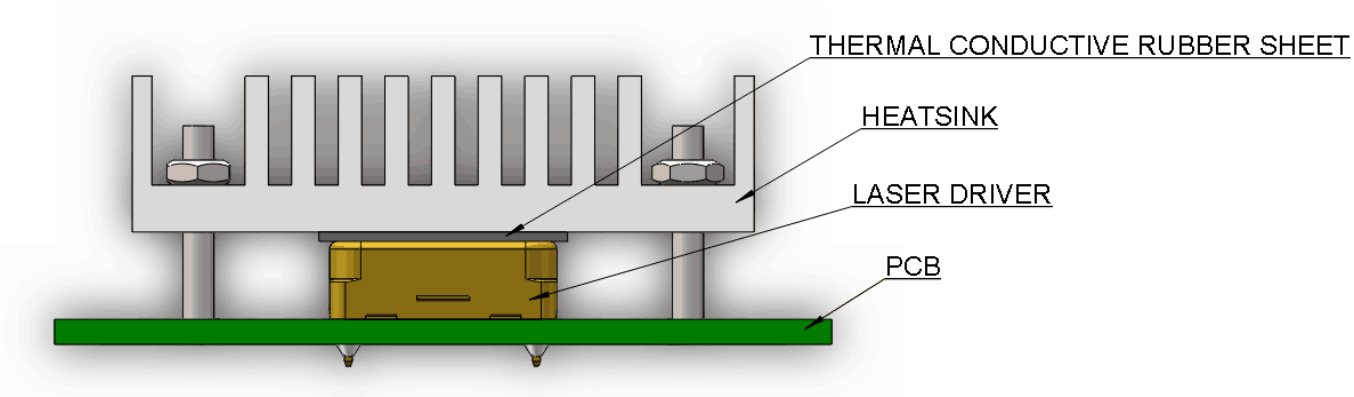


Figure 9.2 Transferring Heat with Heat Sink

First Time Power Up

Laser diode is a high value and vulnerable device. Faults in connections and damages done to the driver during soldering process may damage the laser diode permanently. To protect the laser diode, it is highly recommend to use 3 to 18 regular diodes which is > 10A to form a "dummy laser" and insert it in the place of the real laser diode, when powering up the driver for the first time. Use an oscilloscope to monitor the LDA voltage at times of powering up and enabling the shutdown pin, and powering down the laser driver and turning off the shutdown pin, and make sure that there is not over-shoot output voltage at the LDA pin. At the same time, it uses an ammeter in series with the dummy laser, to make sure that the output current is correct. After thoroughly checking and making sure of free of faults in the system, disconnect the dummy laser diode and connect the real laser diode in place. The driver output voltage range for the laser is between 0 to V_{VPS} (power supply input voltage).

Warning:

1. The output voltage must be within 20% to 80% of VPS.

2. Both the surface mount and the through hole types of packages can only be soldered manually on the board by a solder iron of < 310°C (590°F), do not use a reflow oven to solder this laser driver.

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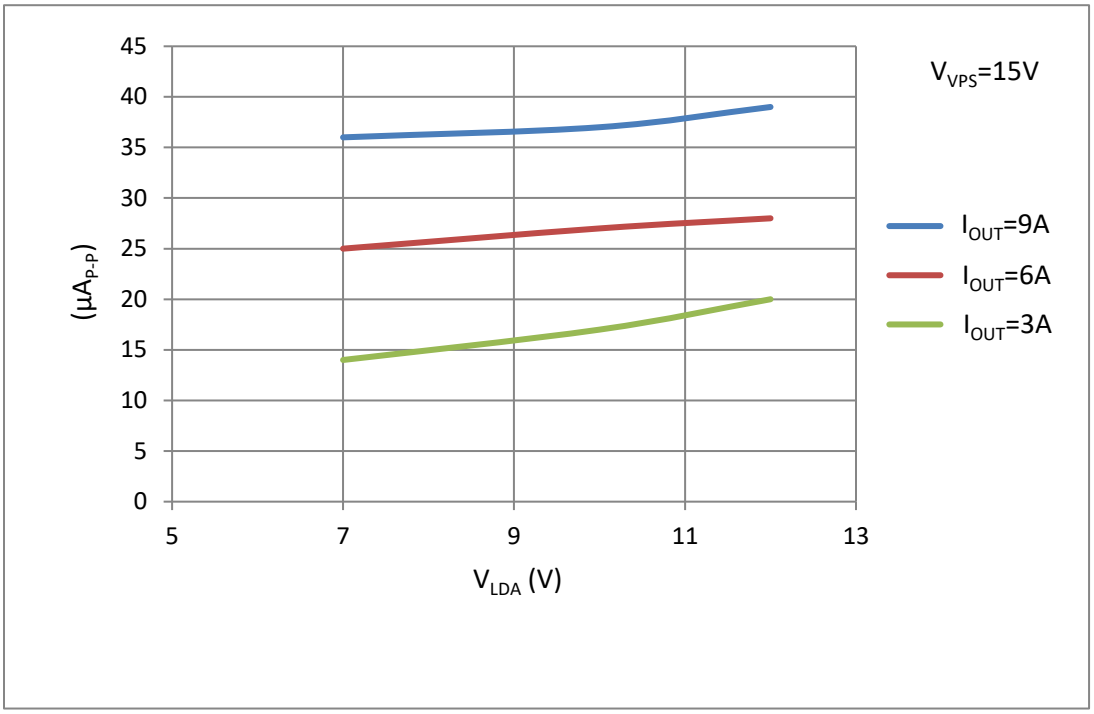


Figure 10.1. V_{LDA} vs. Output Current Noise@0.1Hz~10Hz

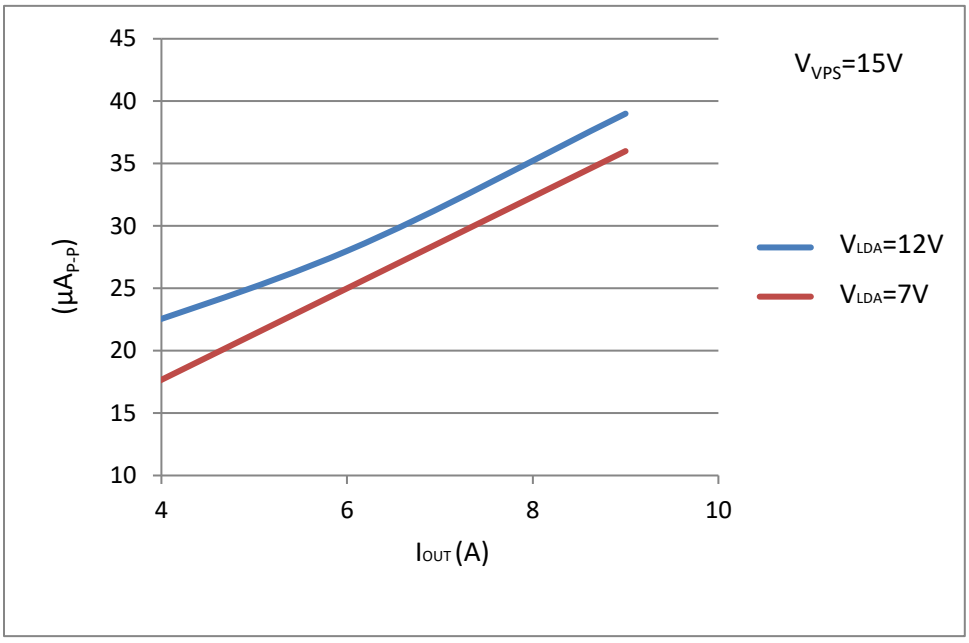


Figure 10.2. I_{OUT} vs. Output Current Noise@0.1Hz~10Hz

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OUTLINE DIMENSIONS

The driver comes in 1 package: through hole mount, or so-called DIP (Dual Inline Package) or D (short for DIP) package.

Dimensions of the DIP package driver are shown in Figure 11.

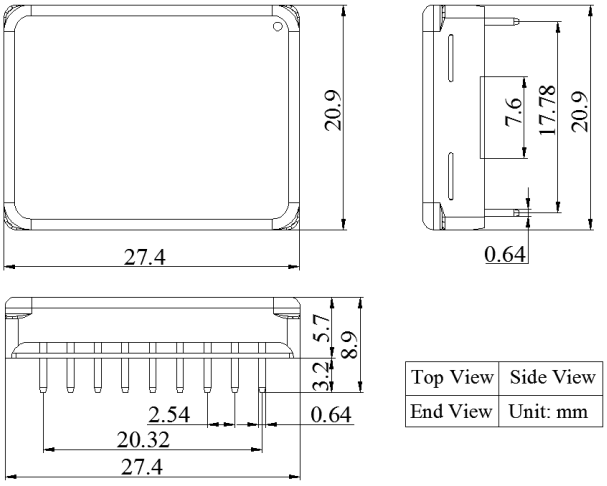


Figure 11. Dimensions of the DIP Package Driver

Figure 12 shows the foot-print which is seen from the end side of the PCB.

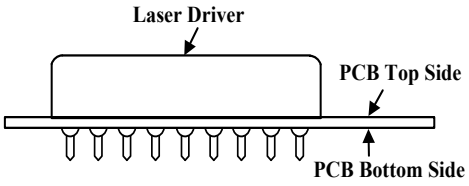


Figure 12. End View of the PCB Foot-print

"Tent" all the vias under the driver, i.e. cover the entire via by the solder mask layer, otherwise the vias can be shorted by the bottom plate of the driver which is internally connected the ground.

See Figures 13 and 14, it is recommended to use large copper fills for VPS, PGND, and the LDA pins, and other pins if possible, to decrease the thermal resistance between the module and the supporting PCB, to lower the module temperature.

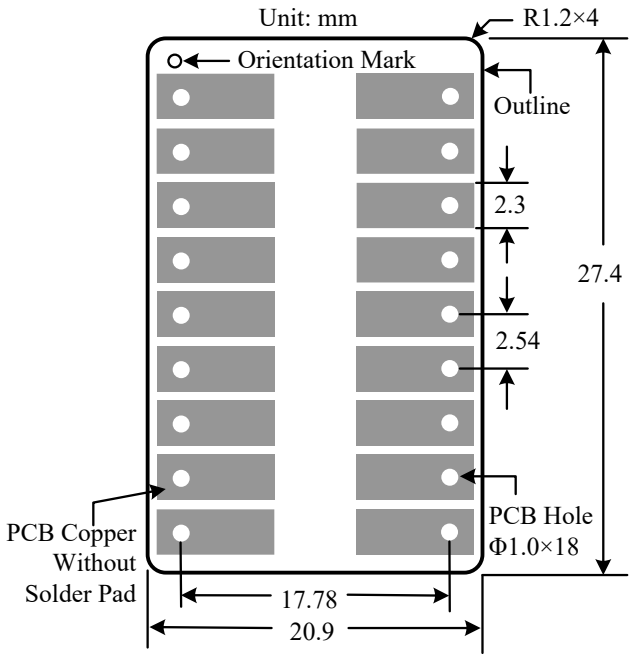


Figure 13. Top View of the Top Side PCB Foot-print

Figure 13 shows the foot-print which is seen from the top side of the PCB, therefore, it is a vertical view.

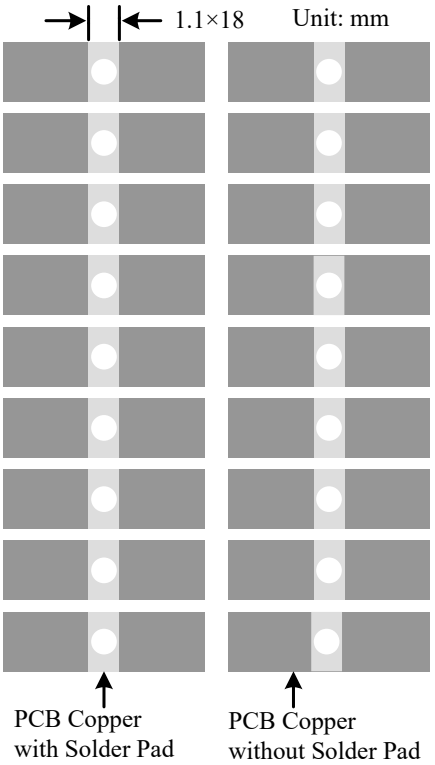


Figure 14. Top View of the Bottom Side PCB Foot-print

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Figure 14 shows the foot-print which is seen from the bottom side of the PCB.

It is highly recommended to lower solder iron temperature to 310°C (590°F) and solder the driver manually, so that the internal contents of the driver would not be affected.

After the soldering, it is also safe to check the laser driver's functionality by using the "dummy laser" before connecting a real laser diode as mentioned previously on page 4.

NOTE: The power supplies may have over-shoot voltage spikes when they are not connected well with the load or when they recover from an over current protection state. When happens, it may exceed the maximum allowed input voltage, 15V, of the controller and damage the controller permanently. To avoid this from happening, do the following:

1. Connect the controller well with the power supply before turning on the power.

2. Make sure that the power supply has sufficient output current. It is suggested that the power supply can supply 1.2 to 1.5 times the maximum current the controller requires.

3. When using a bench top power supply, set the current limit to >1.5 times higher than the maximum current the controller requires.

ORDERING INFORMATION

Table 6. Part Number

Part Number	Description
ATLS10A216D	10A constant current driver in DIP package

NOTICE

1. ATI warrants performance of its products for one year to the specifications applicable at the time of sale, except for those being damaged by excessive abuse. Products found not meeting the specifications within one year from the date of sale can be exchanged free of charge.
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7. If not utilizing the internal reference voltage source, the minimum power supply can be as low as 4.5V.

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