

Cobolt o6-o1 Fiber Pigtailed

True fiber pigtailed for o6-MLDs

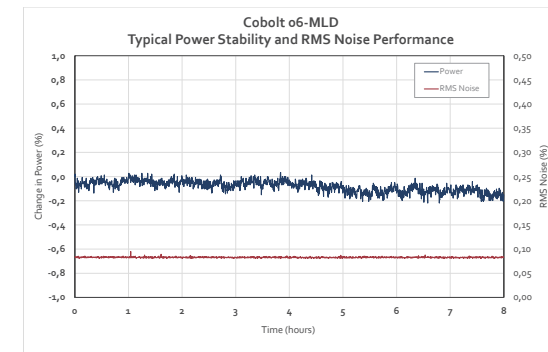
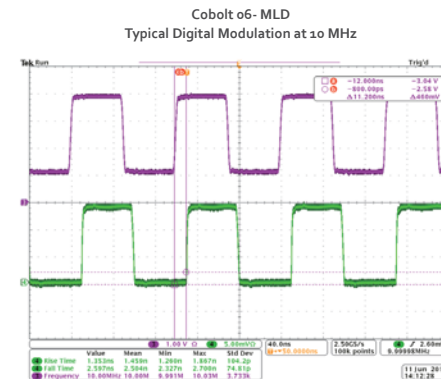
- Easy-to-integrate compact and powerful laser modules
- Fast and deep modulation from versatile input signals, up to 150 MHz
- Permanently aligned SM/PM fiber
- Insensitive to transport conditions
- 405 nm, 445 nm, 473 nm, 488 nm, 515 nm, 633 nm, 638 nm, 647 nm and 660 nm



The Cobolt o6-o1 Series lasers can be supplied with an ultra-compact and robust fiber delivery option.

A true fiber pigtailed option for high performance laser diode modules, where the fiber is permanently aligned and fixed inside the sealed package using Cobolt proprietary HTCure™ Technology, providing stable output over a large temperature range and high level of insensitivity to transport conditions.

The design is intended for OEM use and type of fiber, connector and lengths can be customized. The output power is specified as out of the fiber.



Cobolt o6-01 Fiber Pigtailed Option

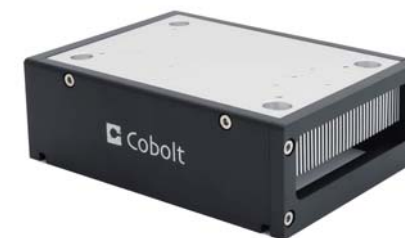
	405 nm	445 nm	473 nm	488 nm	515 nm	633 nm	638 nm	647 nm	660 nm
Center Wavelength (nm)	405 ± 5	445 ± 5	473 ± 5	488 ± 5	515 ± 5	633 ± 5	638 ± 5	647 ± 5	660 ± 5
Power (mW)	50 150	50	50	30* 100**	30	40	80	60	50
Spectral bandwidth (FWHM)	< 1.2 nm			< 1.5 nm		< 1.2 nm			
Long-term stability (8 hrs ± 3°C)	< 2 %								
Exit ferrule	End-cap				No end-cap				
Fiber Output	FC/APC, 8°, non-collimated								
Fiber Type	SM/PM								
Polarization	PER > 100:1, ± 2°								
Standard Fiber Length	1 m								
Jacketing	Ø 3mm, Stainless Steel								
Digital modulation									
Bandwidth	DC - 150 MHz					DC - 150 MHz			
Extinction ratio @10 MHz	>10 000 000 : 1 (>70dB)					>10 000 000 : 1 (>70dB)			
Rise/fall time	< 2.5 ns					< 2.5 ns			
Analog modulation									
Bandwidth	DC - 2 MHz					DC - 2 MHz			
Extinction ratio @ 250 kHz	>10 000 000 : 1 (>70dB)					>10 000 000 : 1 (>70dB)			
Rise/fall time	< 300 ns					< 300 ns			
ON-OFF modulation									
Frequency	DC - 500 kHz					DC - 500 kHz			
Extinction ratio	inf : 1					inf : 1			
Rise/fall time	< 300 ns					< 300 ns			
Total system power consumption	< 12W								
Communication	USB or RS-232 (CDRH /CE Only)								
Power Supply	5V, 3A								
Model number structure									
CDRH / CE (Key box included)	wavel-06-03-pwr-100								
OEM (Autostart mode)	wavel-06-03-pwr-200								
Warranty	12 months, unlimited hours								

* Without end-cap in standard configuration

** With end-cap in standard configuration

Options & Accessories

- Laser head heat sink HS-03
- Control box with key-switch (CDRH)



This device is sensitive to Electrostatic Discharge (ESD). Always handle diode lasers with extreme care to prevent electrostatic discharge, the primary cause of unexpected diode failure.

WARNING LASER RADIATION
Avoid Exposure to beam
Class 3B Laser Product
Classified per IEC 60825-1:2014

Wvl (nm)	Max.Pwr (mW)
405	360
445	120
473	120
488	240
515	100
633	120
638	170
647	200
660	170

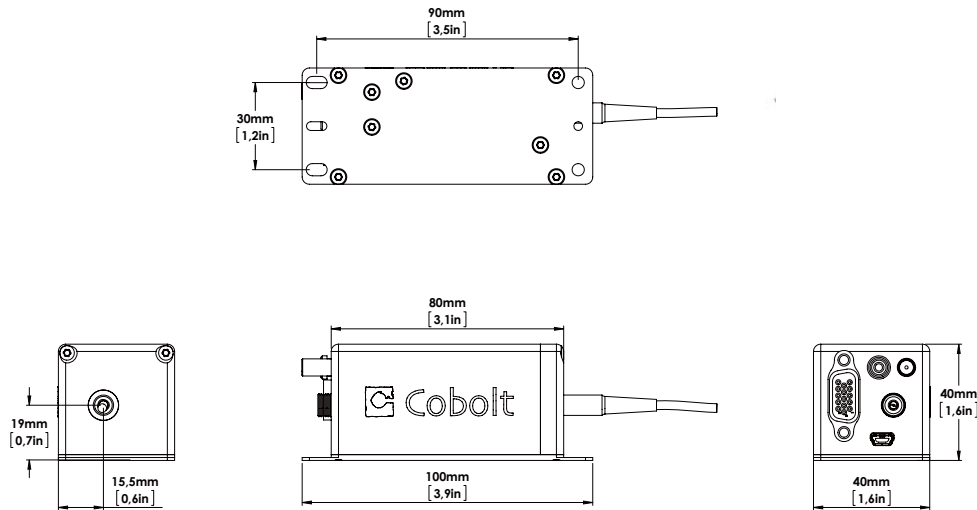


Laser performance specifications not in this datasheet can be found on the Cobolt o6-01 Series datasheet.

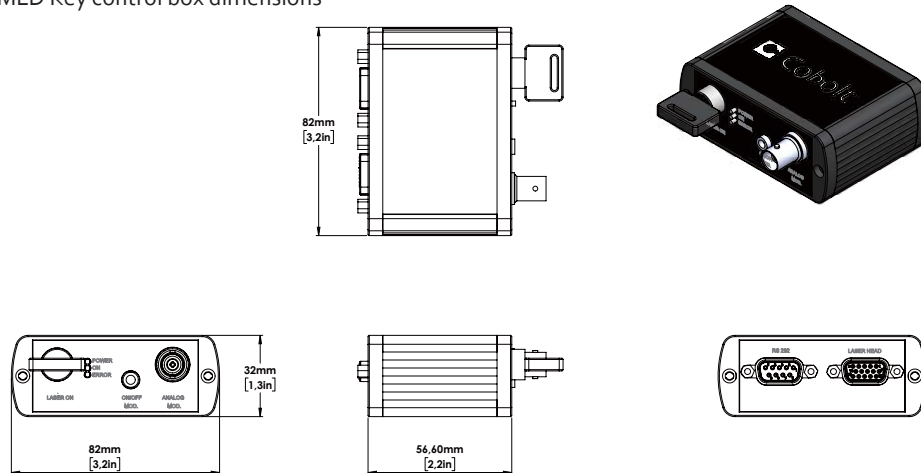
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Mechanical Specifications

Laser head dimensions



MLD Key control box dimensions



Electrical Interface

Interface	Location	Connector Type
Input power	Laser Head	DC plug 2.5 mm / 5.5 mm female
Remote interlock connector	Laser Head	2.5 mm audio female
Data port	Laser Head	USB-type mini B
Key control Box connector	Laser Head	VGA D-SUB 15-pin male
Digital modulation	Laser Head	SMA female
Analog modulation	Laser Head	OEM : D-SUB 15 pin 7 & 8
Laser Head connector	Key box	VGA D-SUB 15-pin male
RS-232	Key box	D-SUB 9-pin male
On/off modulation	Key box	3.5 mm audio female
Analog modulation	Key box	BNC female

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