



# CoBrite<sub>PX</sub> – Tunable Laser for PXI systems

## Features

- ✓ Single Slot Industry standard PXI & CompactPCI compatible
- ✓ 1 or 2 lasers per card
- ✓ Polarization Maintaining Fiber
- ✓ Local On/off switch at each port
- ✓ User exchangeable optical Connector standards

## Continuously tunable Variant

- ✓ Line width < 100kHz
- ✓ Output power tunable from 6.0dBm up to 16.0dBm
- ✓ tunable to any Frequency; 1MHz step size Fine Tuning
- ✓ C&L Band variant available

## General purpose tunable Variant

- ✓ General purpose tunable laser at cost of a DFB source
- ✓ tunable to 50GHz ITU Grid
- ✓ Ultra cost efficient

## Applications

- ✓ DWDM transport testing
  - ✓ flexible grid testing
- ✓ ready for data rates 100G+
- ✓ coherent Transmission
  - ✓ Local Oscillator
  - ✓ Transmitter Laser



CoBrite<sub>PX</sub> PXI compatible tunable Laser modules plug into any industry standard PXI or CompactPCI chassis allowing users to build test systems based on a wide variety of chassis and cards functionalities available for the PXI eco system.

This cards features one or two lasers on a single slot slide-in card with a local on/off switch and universal optical adaptors which are user exchangeable to flexibly meet your connectivity needs.

A narrow line width Laser variant supporting high end coherent applications as well as a cost effective standard line width laser is supported.



# Optical specification

Optical Parameter	Continuous tuning Laser (H01)	ITU Grid tuning Laser (C01)	Standard ITU tunable Laser (W01)	Unit
Frequency tuning range; C – Band L – Band <b>C&amp;L – Band</b>	191.3 – 196.25 186.35 – 190.95 <b>186.25 - 196.25</b>	191.7 – 196.1 186.5 – 190.9 –	191.7 – 196.1 186.5 – 191.1 –	THz
Channel Spacing	Continuous	50	50	GHz
Frequency fine tune resolution	1	1	–	MHz
Frequency fine tune range	+/- 12GHz	+/- 15GHz	–	GHz
Optical output Power range; C Band L Band C&L Band	6 – 16 6 – 16 3 – 12	15.5 14 –	8 – 14 5 – 11 –	dBm
Spectral Line width; 3dB instantaneous, 3.5us	<100 25kHz typical	Typical : 300 Max: 500	Typical : 800 Max: 5000	kHz
Frequency accuracy over Lifetime Over 24 hours		+/- 1.5 +/- 0.3GHz	+/- 1.8	GHz
SMSR; Side mode suppression ratio		>40 (50typ.)	>40 (45typ.)	dB
RIN (10MHz to 3GHz)		< -145 (up to 40GHz)	<-145	dB/Hz
Output Connector		FC/APC, FC/PC or SC/PC	FC/PC or SC/PC	
Output power accuracy over Lifetime Over 1 hour Over 24 hours		-/+1 (1.3 for C&L Band) +/- 0.01 (typ.) +/- 0.03 (typ.)		dB
Output power setting resolution		0.01		dB
Optical Fiber	Polarization- maintaining PANDA type Fiber, PER > 20dB, 25typ.			



## Ordering Information

CBPX	-X	-X	-XXX	-XX
Article	No of Lasers	Band	Variant	Connector
<i>CoBrite<sub>PX</sub></i>	2	C = C - Band	H01	FA = FC/APC
	1	L = L – Band	W01	FP = FC/PC
		CL =C&L Band		SP = SC/PC

### Contact information

ID Photonics GmbH  
 Anton-Bruckner-Str. 6  
 85579 Neubiberg  
 GERMANY  
 Tel.: + 49 (0) 89 – 201 899 16

[info@id-photonics.com](mailto:info@id-photonics.com)  
[www.id-photonics.com](http://www.id-photonics.com)



Invisible Laser Radiation  
 Class 1M Laser Product  
 EN 60825-1: IEC 60825-1