

CoBrite DX – Tunable Laser

Features

- ✓ Hosts 1,2 or 4 laser ports
 - ✓ Polarization Maintaining Output
- √ 5 Laser variants available
- ✓ Line width down to < 25kHz
- Remote control
 - ✓ USB & Ethernet connectivity
 - ✓ SCPI Style commands
- ✓ Integrated Web Server for browser-based control
 - Access device from any smartphone or PC via Browser
- ✓ Large Touch Display Panel for intuitive local control
- √ 19" Rack mountable
 - ✓ 2HE 19" Half width

Applications

- ✓ DWDM transport testing
- √ coherent Transmission
 - ✓ Local Oscillator
 - ✓ Transmitter Laser
- √ versatile Light source



CoBrite is a versatile tunable Laser light instrument that allows standalone operation by an intuitive local touch display. The chassis can be equipped with 1, 2 or 4 tunable lasers and 5 laser variants to meet your specific needs. Mixing of Laser types is possible.

Remote operation via an integrated web server allows control using any browser-based device such as smartphones eliminating the need for complex software installations.

An integrated AC power supply makes this solution ultra portable while it is compatible with the 19" rackmount standard.

Automated remote control is achieved via USB or Ethernet by SCPI command control.

Optical connectors are tool-free user removable allowing instant access for fiber cleaning.

Optical Parameter		Laser Type	Laser Type	Laser Type	Unit
		N	S	G	Oilit
Frequency range; C – Band L – Band		190.70 – 196.65 (1524.5 - 1572nm) 186.00 – 191.1	191.12 – 196.25 (1527.6 – 1568.6nm) Not available	191.1 – 196.25 (1527.61 – 1568.77nm) Not available	
parameters X-	– Band + L – Band (LC)	(1568.8 – 1611.7nm) 184.30 - 190.5 (1573.7 - 1626.65nm) 186.00 - 196.65 (1524.5 - 1611.7nm)			THz
Channel Spacing		Continuous	Continuous	Continuous	GHz
Frequency fine tune resolution		1	10	1	MHz
Frequency fine tune range		+/- 6	+/- 10	+/- 6	GHz
tuning range I for any frequency	C Band L Band X Band C + L Band	10.0 - 16.0 9.0 - 14.5 13 - 16 6.8 - 10.5	8.8 – 17.8 (17.0 dBm EOL) –	9.5 – 15.5 -	dBm
Spectral Line width; 3dB instantaneous, 3.5us (Lorentzian contribution)		< 100 25 typical	80 typical < 100 (Pout < 16dBm) < 150	< 100 25 typical	kHz
Frequency accuracy over Lifetime Over 24 hours		+/- 2.5 0.3	+/- 1.5 0.3	+/- 2.5 0.3	GHz
SMSR; Side mode suppression ratio; measured with 0.1nm RBW		> 40 55 typical	> 40	> 40 55 typical	dB
RIN (10MHz to 3GHz)		-145 (10 MHz to 22GHz, 11dBm)	-140 (100kHz – 20MHz), average -150 (20MHz – 1GHz)	-145 (10 MHz to 44GHz, 7dBm)	dB/Hz
Power accuracy over tuning range		+/- 0.5	+/- 0.5	+/- 0.5	dB
Tuning speed (max/ty	pical)	15 / 10	2 / 1.0	15 / 10	S
Output Connector			FC/APC, FC/PC or SC/PC		
Output power accuracy over Lifetime Over 1 hour Over 24 hours			-/+1 +/- 0.01 (typ.) +/- 0.03 (typ.)		dB
Output power setting resolution			0.1		dB
Optical Fiber		Polarization	- maintaining PANDA type F	iber, PER > 18dB, 25typ.	

WL Freq. FTF	1553. 193.0	1553.329 1 15.91 dBm	
SETTINGS LASER 1	DEVICE SETUP	TURN ALL LASERS OFF	
	Touc	h Panel	

Totalization maintaining 1744b/t type Tibel, 1247 154b, 25typ.						
Device Parameter						
Operating Temperature	0 to 40°C	non-condensing				
Storage Temperature	-20°C to 60°C	non-condensing				
Size of device (H x W x D), weight	89 x 206 x 235mm 3.51" x 8.12" x 9.06"	3 kg 6.6 lbs				
Power Supply	100-240 VAC, 0.5A, 50/60Hz, 35 Watt					

Ordering Information

* APC type connector only

CBDX

-XY-XY-XY

Article

Laser Configuration, per Port:

Connector

X: Laser Type (N,S,G*)

Y: Laser Band - (C, L, X) band

XY = LC - C + L band option, 2 laser ports max.

XY = NN: No laser equipped

Example: CBDX-NC-SC-NN-NN-FA: 2 Laser ports with 1 NC & 1 SC type, FC/APC connector

Accessory

CBDX-ACC-RM-x

19" Adaptor plate for rack mount, 2 HE

1: 1 Laserchassis; 2: 2 Laser chassis

RoHS compliant

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

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