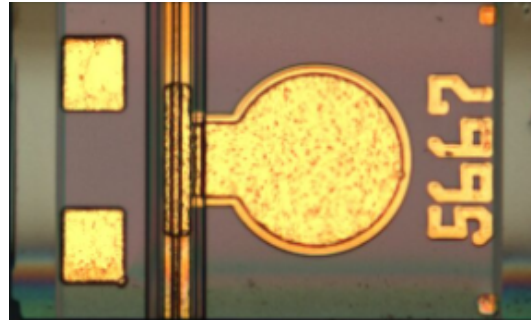


B1310x Series

25G 1310 nm DFBs for CWDM

Features

- 1310 nm DFB Laser
- 25 Gbps speed
- CWDM Wavelengths: 1271, 1291, 1311, 1331 nm
- Available on a sub-mount
- High Temperature Operation: -5 to 85 °C
- Designed for Telcordia GR-468



Description

Bandwidth10's B1310x is a series of DFB lasers operating at 25 Gbps. Available wavelengths for CWDM are 1271, 1291, 1311 and 1331nm. The B1310x series supports high temperature operation up to 85°C. The DFBs are available on a sub-mount. The DFBs are designed to meet Telcordia GR-468.

Applications:

25G and 100G transceivers

Electro-Optical Characteristics

No.	Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit	
1	Threshold Current	25°C, CW	I _{th}	-	-	16	mA	
		75°C, CW		-	13	18		
2	Slope Efficiency	25°C, CW	SE	0.25	0.35	-	mW/mA	
		75°C, CW		0.2	0.3	-		
3	Optical Output Power	25°C, I _{th} +30 mA	P _o	6	7.5	-	mW	
4	Laser Forward Voltage	25°C, I _{th} +30mA	V _f	-	1.2	2	V	
5	Operating Current	25°C, CW	I _{op}	-	-	60	mA	
6	Resistance	25°C, CW	R _s	-	9	12	Ohm	
7	Center Wavelengths	25°C, CW, I _f =30mA	λ _c =1271	λ _c	λ _c -3	λ _c	λ _c +3	nm
			λ _c =1291					
			λ _c =1311					
			λ _c =1331					
8	Side Mode Suppression Ratio	25°C, CW, I _f =30mA	SMSR	35	-	-	dB	
9	Vertical /Horizontal Far Field Ratio (FWHM)	25°C, CW, I _f =30mA	FFR		1.4			
10	Small Signal Modulation Bandwidth	25°C, 60 mA	BW	21			GHz	
		70°C, 60 mA		18				

25G 1310 nm DFB



Absolute Maximum Ratings

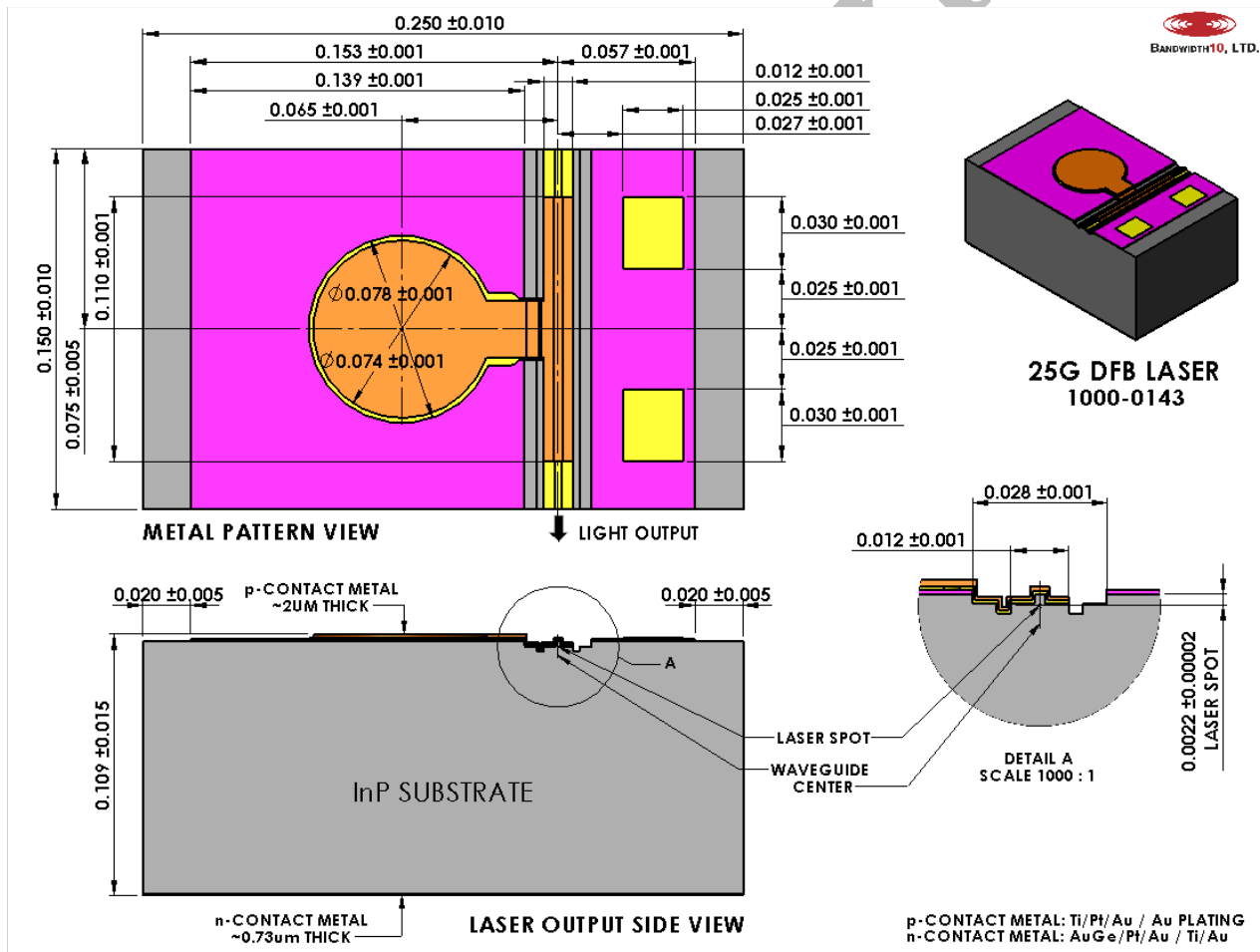
Parameter	Rating
Optical Output Power	20 mW
Reverse Voltage	2 V
Forward Current	120 mA
Case Operating Temperature	-5 to +85 °C
Storage Temperature	-40 to +85 °C

Ordering Information

Part Number	Description
BXD-1271-F-250-6I	25G, 1271 nm CWDM DFB
BXD-1291-F-250-6I	25G, 1291 nm CWDM DFB
BXD-1311-F-250-6I	25G, 1311 nm CWDM DFB
BXD-1331-F-250-6I	25G, 1331 nm CWDM DFB

For More Information:

Bandwidth10 Ltd.
 1218 Seventh Street, Suite A
 Berkeley, CA 94710
 Tel: 203-561-0769
info@Bandwidth10.com
www.Bandwidth10.com



Preliminary Product Specification

Ver: 1.1 Oct. 2017



BANDWIDTH10, LTD.