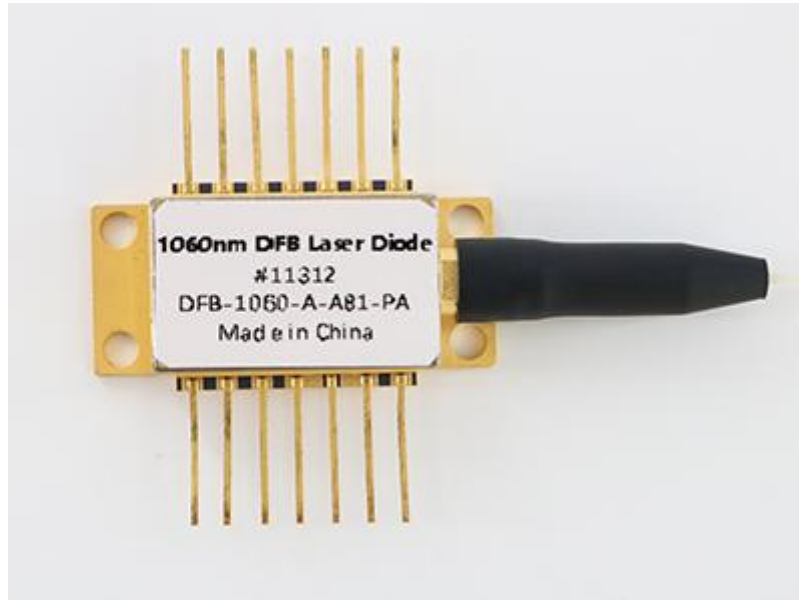


1060nm DFB Laser Diode 30mW

Communication Type



● Product Description

1060nm 14PIN Butterfly Package DFB Laser, with built-in TEC, lens, thermistor, and PD integrated in the 14PIN butterfly package. The hermetically sealed design meets telecom-grade operational requirements, featuring narrow linewidth and high power (50mW). It supports PM980 or HI1060 fiber output and also supports custom pin definition as per customer requirements.

● Part Number

DFB-1060-A-A81-PA

● Product features

14PIN butterfly sealed package 、 Custom wavelengths from 1018-1200nm
with integrated TEC and thermistor 、 DFB chip, narrow linewidth 、
PM980/HI1060 fiber pigtail options available

● Application area

Ultrafast laser SHG seed light

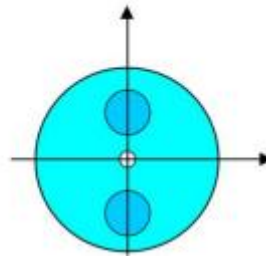
Optical-Electrical Characteristics (25° C)

Optical Electrical Characteristics (TCHIP = 15 - 35 °C, TCASE = 25 °C, Iop = 150 mA)				
Parameter	Min	Typ.	Max	Unit
Central Wavelength	1058	1060	1062	nm
SMSR	40	50	-	dB
Linewidth	-	5	-	MHz
Optical Power (inside fiber)	30	50	-	mW
Drive Voltage	-	2	2.5	V
Drive Current	-	150	250	mA
Mode Hop-Free Current Range	20	50	-	mA
Threshold Current	-	35	-	mA
Optical Electrical Characteristics (TCHIP = 15 - 35 °C, TCASE = 25 °C, Iop = 150 mA)				
Slope Efficiency	-	0.25	-	W/A
Current Wavelength Coefficient	-	0.002	-	nm/mA
Temperature Wavelength Coefficient	-	0.08	-	nm/°C
MPD Response Rate	-	0.5	-	A/W
Extinction Ratio	-	16	-	dB

Optical Fiber Characteristics:

Fiber Type	PM980-XP
Mode Field Diameter	6.6 ± 0.5 μm @ 980 nm
Numerical Aperture	0.10
Fiber Length	1.5 m
Connector	FC/APC (2.0 mm Narrow Key)
Loose Tube	Ø900 μm

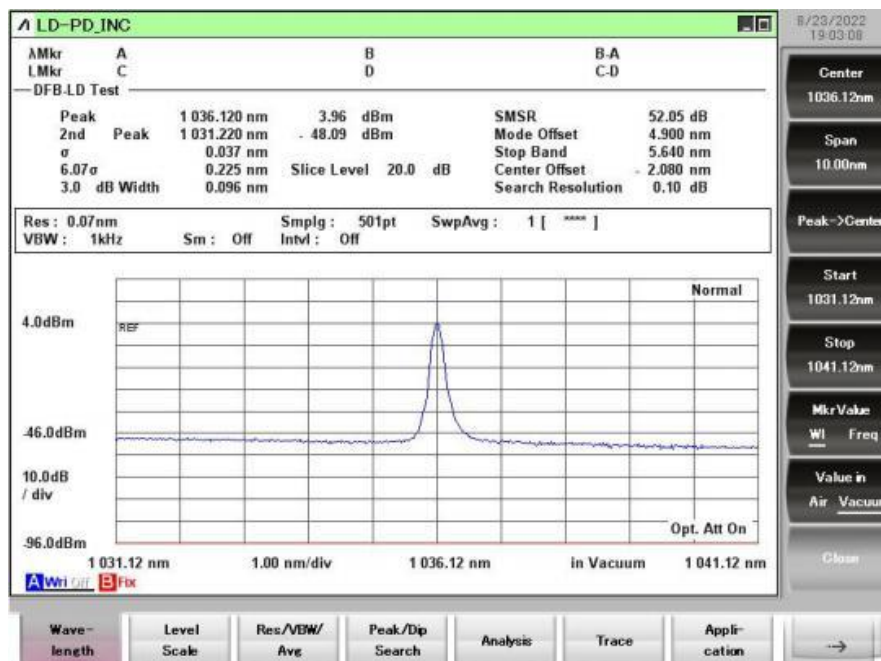
Key Aligned to the Slow axis



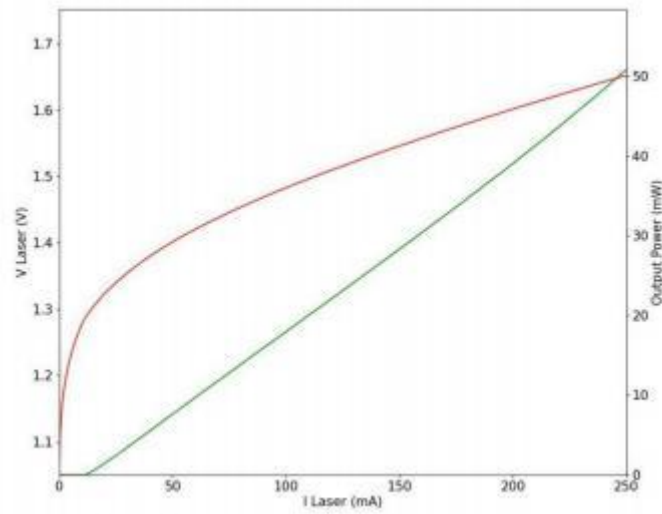
Limiting Parameters

Parameter	Typical Value	Unit
Optical Fiber Power	50	mW
Operating Current	400	mA
LD Reverse Voltage	2	V
PD Reverse Voltage	15	V
Case Operating Temperature	0 to 50	°C
Storage Temperature	-10 to 65	°C
TEC Current	2.5	A
TEC Voltage	4.0	V
Thermistor Resistance	10	kOhms

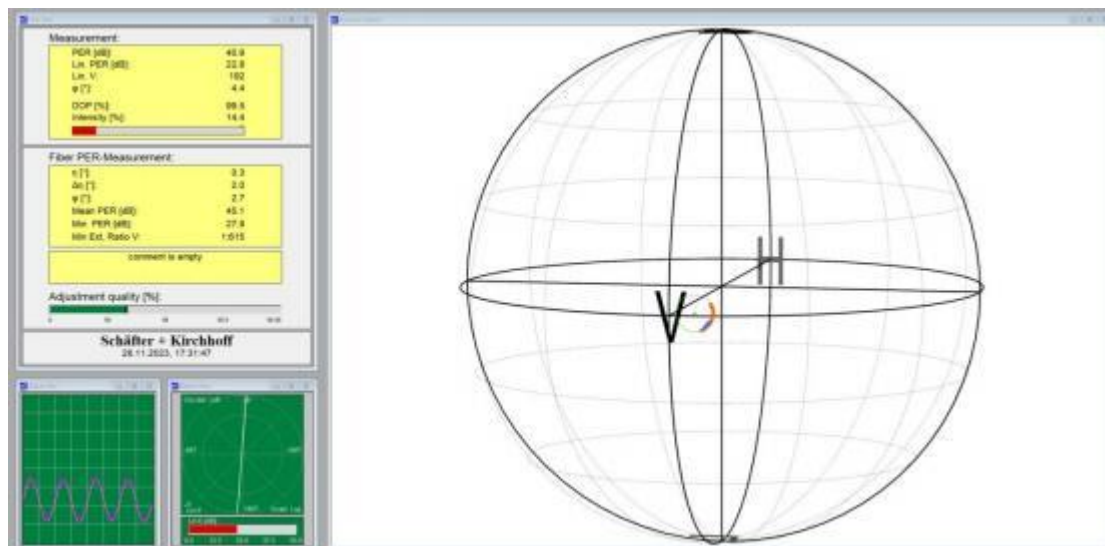
Spectral Analysis



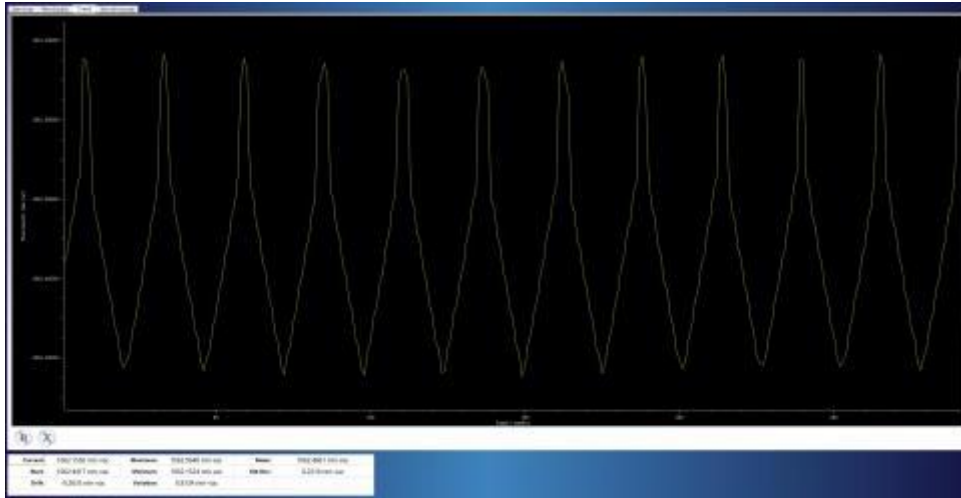
L-I-V Curve



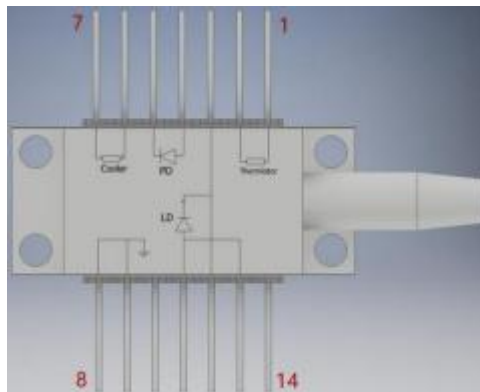
Extinction Ratio Test (Polarization Maintaining Version)



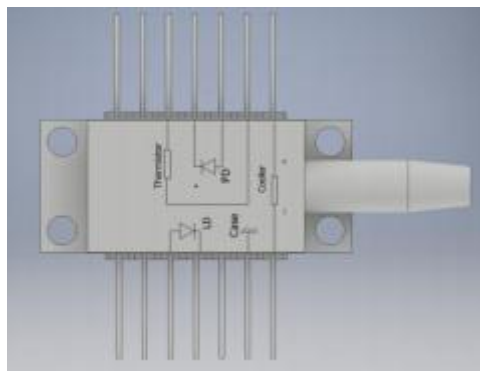
Mode hope tuning Range



Pin Definition: Standard A



Standard B



Ordering Information:

DFB- □□□□-☆-A8▽- XX

□□□□: Wavelength 1018: 1018nm

1030: 1030nm 1053: 1053nm 1064: 1064nm 1084: 1084nm

1120: 1120nm

☆ : Pin Definition A: Telecom A

B: Pump B

▽ : Wavelength Tolerance 1: ± 1 nm

2: ± 2 nm

XX: Fiber and Connector Type SA=HI1060+ FC/APC

SP=HI1060+ FC/PC

PA=PM980 Fiber+ FC/APC PP=PM980 Fiber+ FC/PC

Our default packaging does not include an isolator. If the customer requires an isolator, please add "-ISO" at the end of the model number. The output power with the isolator is guaranteed to be 30mW+.

Eg:

PN#DFB-1060-B-A81-PA-ISO