

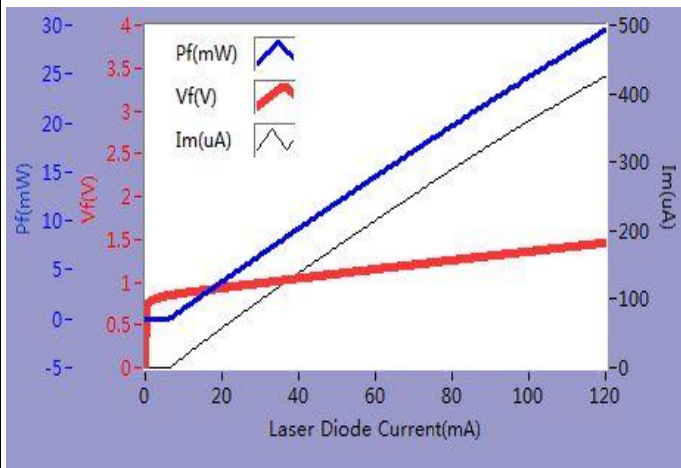
DFB Laser Test Report

Product	Selected Wavelength Laser Diodes (BFLD-1582-20PM-FA2)
Description	1582nm DFB laser diode with PM fiber pigtail,20mW,FC/APC connector
Serial Number	76010417
Qualification	Telcordia GR-468

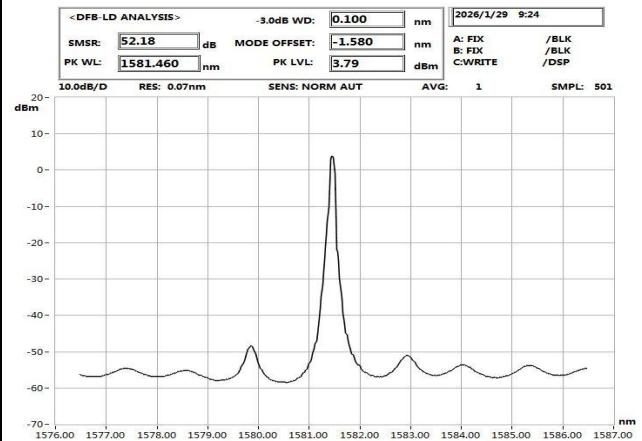
Optical and Electrical Data

No.	Parameter	Symbol	Unit	Testing result	Requirement	Condition
1	Threshold current	I_{th}	mA	6.34	≤ 35	at 25.0 °C
2	Monitor PD current	I_{mod}	uA	293.9	10-2500	at20mW power
3	Bias at operation	I_o	mA	81.2	≤ 180	at20mW power
4	Slope efficiency	DE	mW/mA	0.272	≥ 0.05	at20mW power
5	Bias voltage	V_f	V	1.262	≤ 3	at20mW power
6	Operating temperature	T	°C	25	20-30	at20mW power
7	Thermistor resist	R	Ohm	10025	9500~10500	at 25 °C
8	Wavelength	λ_c	nm	1581.48	1582±1	at20mW power
9	Extinction ratio	ER	dB	21	≥ 20	at20mW power
10	Dark current	I_{dod}	nA	0.812	≤ 10	

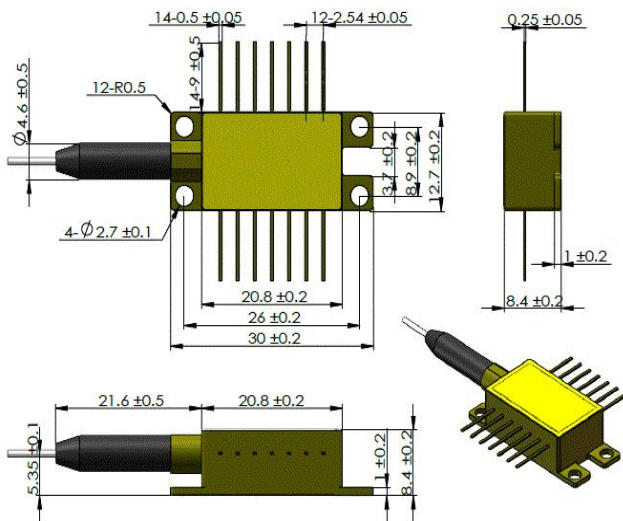
Laser Diode characteristic graph



Optical mapping and data

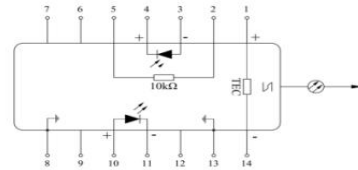


Outline Drawings



Dimensions are in millimeters.

Pin Information



1	Thermoelectric Cooler (+)
2	Thermistor
3	PD Monitor Anode (-)
4	PD Monitor Cathode (+)
5	Thermistor
6	NC
7	NC
8	Case Ground
9	NC
10	Laser Anode (+)
11	Laser Cathode (-)
12	NC
13	Case Ground
14	Thermoelectric Cooler (-)

End of the page

注意事项:Attention notes

- 电敏感器件, 请遵守静电敏感器件的防护措施.The electric sensitive element, please obey the static sensitive element protection
- pin 脚易折断, 请不要大力、大角度弯曲管脚.Pin is easy to break, please don't bend it for big angle.
- 确保使用光纤连接器的端面清洁, 否则会影响器件的性能.Ensure the plane of fiber connection is clean, which will influence the function of module.