

DFB Laser Test Report

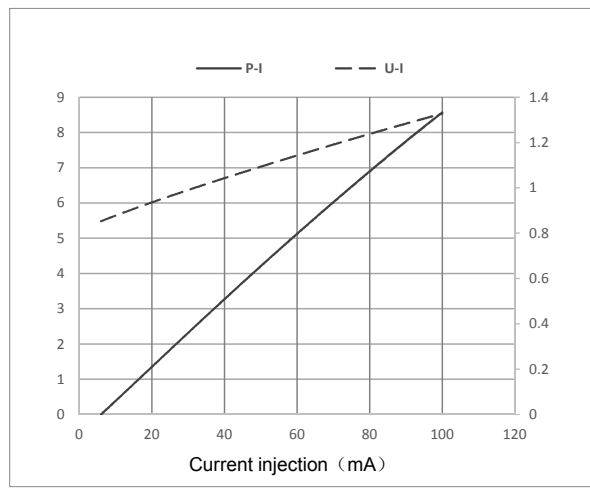
Product	Selected Wavelength Laser Diodes (DFB-1550-5-PM-1-1-N)
Description	1550nm DFB laser diode with PM fiber pigtail, 5mw, FC/APC connector
Serial Number	1904018203
Qualification	Telcordia GR-468

Optical and Electrical Data

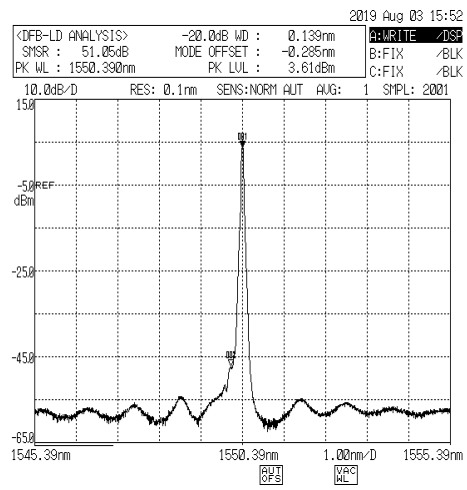
No.	Parameter	Symbol	Unit	Testing result	Requirement	Condition
1	Threshold current	I_{th}	mA	6	≤ 35	at 25.0°C
2	Monitor PD current	I_{mpd}	uA	966.7	50-3000	at 7mW power
3	Bias at operation	I_o	mA	85	≤ 200	at 7mW power
4	Slope efficiency	DE	mW/mA	0.091	0.05-0.30	at 7mW power
5	Bias voltage	V_f	V	1.261	≤ 3	at 7mW power
6	Operating temperature	T	°C	25	15-35	at 7mW power
7	Thermistor resist	R	Ohm	10012	9500~10500	at 25.0°C
8	Wavelength	λ_c	nm	1550.38	1550±1	at 7mW power
9	Extinction ratio	ER	dB	27.3	≥ 20	

NOTE: $I_{max}=200mA$

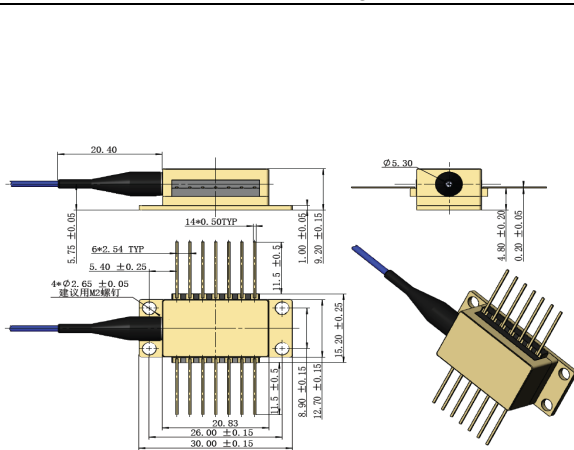
Laser Diode characteristic graph



Optical mapping and data

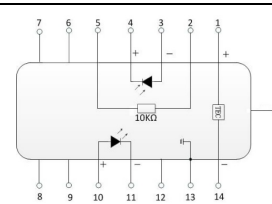


Outline Drawings



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	NC
9	NC
10	Laser Anode (+)
11	Laser Cathode (-)
12	NC
13	Case Ground
14	Thermoelectric Cooler (-)