

DFB Laser Test Report

Product	Selected Wavelength Laser Diodes (BFLD-1550-20PM-FA(0))
Description	1550nm DFB laser diode with PM fiber pigtail, 20mW, FC/APC connector
Serial Number	1909018328
Qualification	Telcordia GR-468

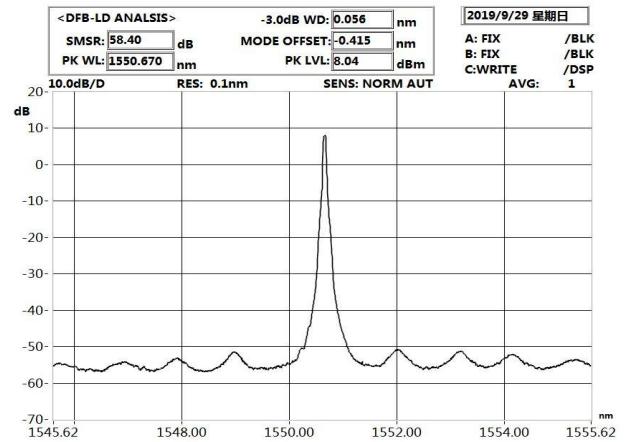
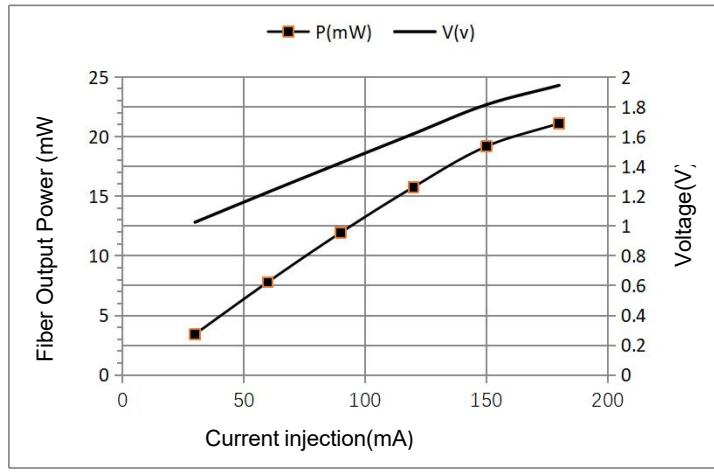
Optical and Electrical Data

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_{mon}	uA	2410.8	50-5000	at 20mW power
3	Bias at operation	I_o	mA	162	≤ 200	at 20mW power
4	Slope efficiency	DE	mW/mA	0.097	0.05-0.30	at 20mW power
5	Bias voltage	V_f	V	1.878	≤ 3	at 20mW power
6	Operating temperature	T	°C	25	15-35	at 20mW power
7	Thermistor resist	R	Ohm	9995	9500~10500	at 25.0°C
8	Wavelength	λ_c	nm	1550.62	1550±2	at 20mW power
9	Extinction ratio	ER	dB	22.3	≥ 20	

NOTE: $I_{max}=200mA$

Laser Diode characteristic graph

Optical mapping and data



Outline Drawings	
<p>Dimensions (mm):</p> <ul style="list-style-type: none"> Total width: 20.40 TEC height: 5.75 ± 0.05 Pin pitch: 14*0.50TYP Pin height: 5.40 ± 0.25 Pin thickness: 4*0.25 ± 0.05 (建议用M2螺钉) Pin length: 11.5 ± 0.5 Pin spacing: 1.00 ± 0.05 Pin height: 9.20 ± 0.15 Pin thickness: 0.20 ± 0.05 Pin length: 15.20 ± 0.15 Pin spacing: 8.90 ± 0.15 Pin thickness: 1.20 ± 0.15 Pin length: 26.00 ± 0.15 Pin spacing: 30.00 ± 0.15 Pin thickness: 20.83 	

Dimensions are in millimeters.

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

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