## **Fiber Coupled DFB Laser**

### (1310nm, 1550nm, 1652nm)

### DATASHEET



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### **Features**

- Low Cost
- Stable

### Applications

- Test
- Communication
- Instrument

The DFBL DFB Laser is a high performance and low cost device that features high output power up to 10mW and build-in power monitor for precision power control as well as TEC cooling for wavelength stability. The precision temperature control capability can also be used for small range wavelength tuning. We offer three wavelength band of 1310nm, 1550nm, and 1653nm.

A heat sink is required to remove the heat preventing damage.

We offer driving electronics to precisely control both the output power and temperature (wavelength).

### **Specifications**

Parameter	Min	Typical	Мах	Unit
Center Wavelength	1310/1550/1653		3	nm
Output Power	2		10	mW
Spectral Width, -3dB		0.06	0.1	nm
Side Mode Suppression Ration (SMSR)		30	36	dB
Laser Operation Current	10		50	mA
Laser Threshold Current (Ith)		4	20	mA
Forward Voltage (Vf)		1.2	2	V
Reverse Voltage			1.5	V
Slope Efficiency		0.1		W/A
Reflection Isolation (built-in isolator)	30			dB
Speed		1.25		Gb/s
PD Capacitance		10	15	рF
PD Dark Current			0.1	μA
PD Operation Current			1	mA
PD Reverse Voltage			15	V
Pin Solder Temperature			250	°C
Thermistor Resistance (25°C)		10	10.5	ΚΩ
B Constant of Rth		3938		К
TEC Voltage			1.2	V
TEC Current			1	А
Operating Temperature	-40		75	°C
Storage Temperature	-40		85	°C
Reliability	Telcordia 1209 and 1221			

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Warning: The device can be damaged by a spike in applying voltage. Do not touch by hand or use a regular power supply. The device mounted on PCB is a costeffective OEM module for professional system integration only, not intended for laboratory use, which be a protected turn-key boxed package. Information is believed to be accurate and is subject to change without notice. Some specific combinations of options may not be available. The user assumes all risks and liability in connection with the use of a product or its application.

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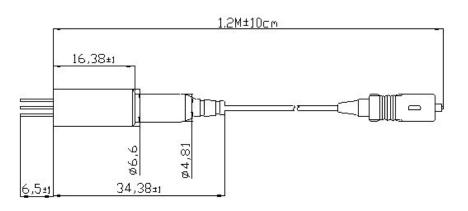
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### **Mechanical Dimensions (mm)**



### **Electrical/Computer Connection**

### **Ordering Information**

Prefix	Wavelength	Output Power	Driver	TEC Cooling	Package	Fiber Type	Fiber Buffer	Fiber Length	Connector
DFBL-	1310nm = 3 1550nm = 5 1653nm = 6 Special = 0	3mW = 3 5mW = 5 10mW = 1 Special = 0	No = 1 PCB = 2 Box = 3 Special = 0	No = 1 Yes = 2	Standard = 1 Special = 0	SM28 = 1 PM1550 = 4 50/125 = 5 Special = 0	900µm Tube = 3 Special = 0	0.25m = 1 0.5m = 2 1.0 m = 3 1.5 m = 5 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 LC/UPC = U Special = 0

#### NOTE:

D PM1550 fiber works well for 1310nm

\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

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