

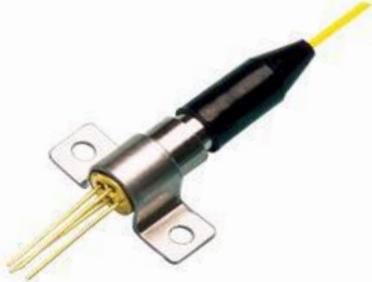
Fiber Coupled DFB Laser

(1310nm, 1550nm, 1653nm)



DATASHEET

[Return to the Webpage](#)



Features

- Low Cost
- Stable

Applications

- Test
- Communication
- Instrument



Specifications

Parameter	Min	Typical	Max	Unit
Center Wavelength	1310/1550/1653			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 (I _{th})		4	20	mA
Forward Voltage (V _f)		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	pF
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	KΩ
B Constant of R _{th}		3938		K
TEC Voltage			1.2	V
TEC Current			1	A
Operating Temperature	-40		75	°C
Storage Temperature	-40		85	°C
Reliability	Telcordia 1209 and 1221			

Note: The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this link](#):

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 cost-effective 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.

Rev 02/26/26

[+1 781-935-1200](tel:+17819351200)

sales@agiltron.com

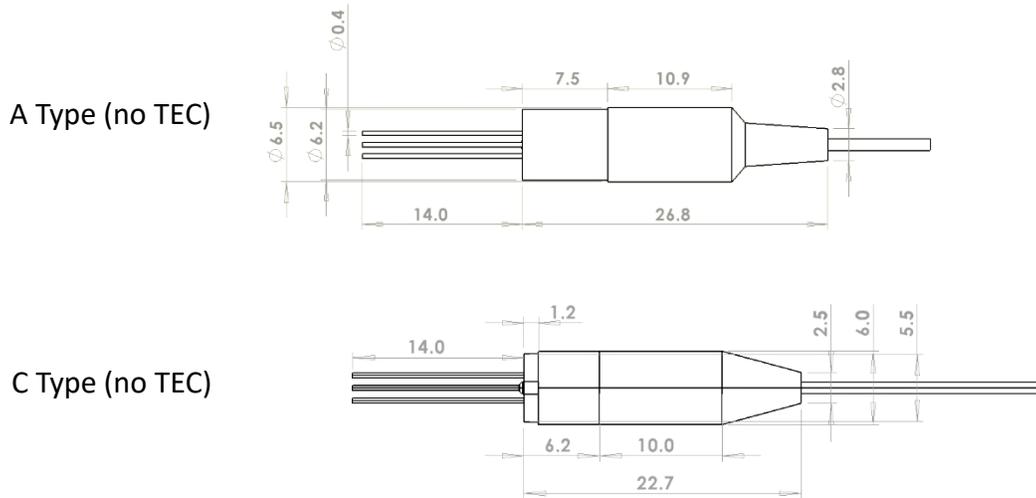
www.agiltron.com

Fiber Coupled DFB Laser

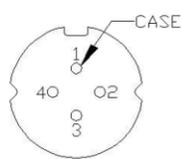
(1310nm, 1550nm, 1653nm)

DATASHEET

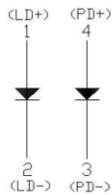
Mechanical Dimensions (mm)



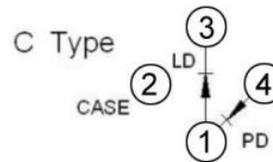
Electrical/Computer Connection (Bottom view)



A Type (no TEC)



B Type (with TEC)



C Type (no TEC)



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

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 A Type = 1 Yes B Type = 2 No C Type = 3 Special = 0	Standard = 1 Special = 0	SM28 = 1 PM1550 = 4 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 LC/APC = A Special = 0

Note:

- PM1550 fiber works well for 1310nm