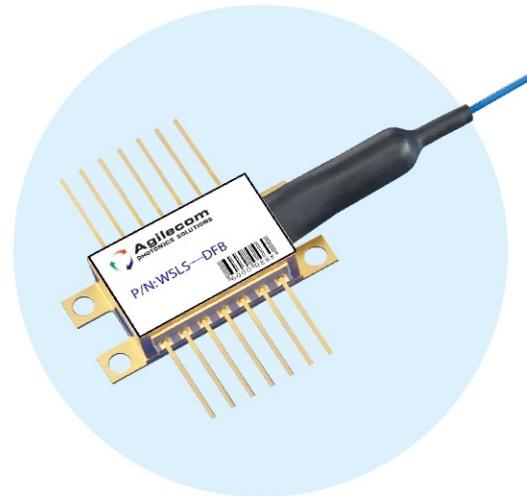


# DFB Laser

Agilecom's Distributed Feed Back Laser (DFB Laser) is fabricated in a hermetically sealed 14-pin butterfly package that contains a laser diode, a thermoelectric cooler (TEC), a thermistor and a monitor photodiode. 9-Pin, TO package and customized packages of the laser sources with the same performance and qualification can also be manufactured.



## Key Features

- Up to 30mW
- High-reliability with Standard 14-pin Butterfly Package
- Customized Package (Optional)

## Applications

- Long Haul CWDM /DWDM Systems
- LAN, WAN and Metro Networks
- CATV Transmission
- Instrumentation

## Specifications

Parameters	Symbol	Test Conditions	Min	Typ	Max	Unit
Peak Optical Output Power	Pp	—	10	—	—	mW
Threshold Current	I <sub>TH</sub>	CW	—	14	25	mA
Driving Current	—	P <sub>o</sub> = 10mW	—	80	—	mA
Laser Forward Voltage	V <sub>LF</sub>	P <sub>o</sub> = 10mW	—	1.4	2	V
Thermistor Resistance	R <sub>TH</sub>	T <sub>L</sub> = 25°C	9.5	—	10.5	kΩ
Center Wavelength	λ <sub>C</sub>	T <sub>LD</sub> = 15 ~ 35°C, CW	CWDM ±1nm/DWDM ±0.10nm		—	nm
Side-mode Suppression Ratio	SMSR	CW	35	45	—	dB
Linewidth	LW	CW	—	3	—	MHz
Bandwidth (@-3dB)	BW	5mW, -3dB	2.5	—	—	GHz
Monitor Current	I <sub>RMON</sub>	P <sub>o</sub> = 10mW	0.1	—	2	mA
TEC Current	I <sub>TEC</sub>	—	—	—	1.9	A
Operating Temperature Range	T <sub>o</sub>	TEC is Operating	-20	—	70	°C
Storage Temperature Range	T <sub>stg</sub>	—	-40	—	85	°C

Pin No.	Pin Function
1	Thermistor
2	Thermistor
3	Laser DC Bias Cathode (-)
4	PD Monitor Anode
5	PD Monitor Cathode
6	Thermoelectric Cooler (+)
7	Thermoelectric Cooler (-)
8	NC
9	NC
10	NC
11	Laser Anode (+), Case
12	Laser RF Cathode(-)
13	Laser Anode (+), Case
14	NC

## Order Information

Code	Center Wavelength(nm)	Code	Output Power(dBm)	Code	Modulation	Code	Fiber Type	Code	Pigtail Type	Code	Fiber Length(m)	Code	Connector
1270	CWDM wavelength 1270~1610	03	03	A	Simulation	1	G657A	0	250um Bare Fiber	1	0.5	0	None
1290		07	07	C	CW	3	1310nm PM fiber	1	0.9mm Loose Tube	2	1.0	1	SC/UPC
.....		10	10	2	2.5GHz	4	1550nm PM fiber	4	0.9mm Tight Tube	3	1.5	2	SC/APC
1610	DWDM wavelength ITU	XX	Customized	X	Customized	X	Customized	X	Customized	4	2.0	3	FC/UPC
8620		5	2.5	4	FC/APC								
.....		6	3.0	5	LC/UPC								
9625		A	1.25	6	LC/APC								
		B	1.75	7	ST/UPC								
		C	2.25	8	MU								
		X	Customized	9	MPO/UPC								
		A	MPO/APC										
	B	MTP/UPC											
	C	MTP/APC											
	X	Customized											