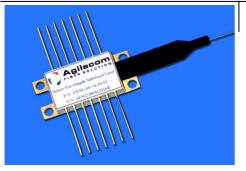


# Wavelength Specific Laser Sources (WSLS)



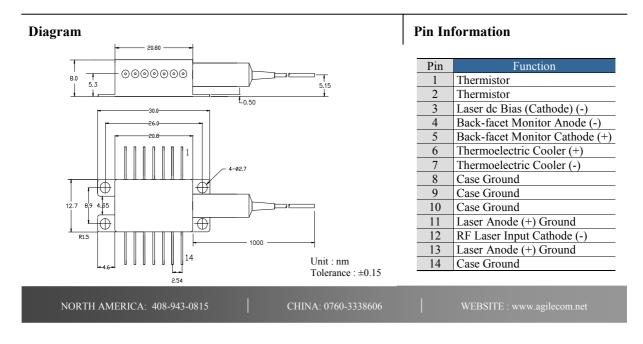
# Key Features ITU wavelengths available Up to 10mW for CW or up to 3.125G direct modulation Low wavelength temperature coefficient Accurate wavelength selections High-reliability in 14pin butterfly package Built-in optical isolator

- Customized package (optional)
- Polarization Maintaining Fiber (optional)

Agilecom Wavelength Specific Laser Sources (WSLS) is specifically developed for Wavelength Division Multiplexing (WDM) systems, where it is used as a wavelength specific source in combination with an external modulator. The specific wavelengths comply with ITU recommendations, in wavelength range from 1260nm to 1620nm for customer's selection.

WSLS series laser is fabricated in a hermetically sealed 14-pin butterfly package that contains a laser diode, thermoelectric cooler (TEC), thermistor, monitor photodiode, optical isolator and unique pigtail system with fiber grating wavelength stabilizer with very accurate wavelength control. Customized packages of the laser sources with the same performance and qualification can also be manufactured.

WSLS series lasers have a high side mode suppression ratios, low relative intensity noise, and narrow linewidth. The output power is up to 10dBm. The lasers meet or exceed Telcordia GR-468-CORE reliability qualification requirement.



#### Applications

- Long haul DWDM Systems
- LAN, WAN and Metro Networks
- CATV Transmission
- Instrumentation
- Others

#### Compliance

• Telcordia GR-468-CORE



### Specifications

## **Absolute Maximum Ratings**

Parameter	Symbol	Min.	Typical	Max.	Unit
CW output power (at 25°C)	Pf	6		10	dBm
Threshold current	Ith		35		mA
Operating drive current	If		120		mA
Forward voltage	Vf		2.0	3.0	V
Wavelength	λc	ITU grid $\pm 0.15$			nm
Linewidth	L		500		KHz
Monitor current	Im		100		μA
Monitor dark current(Vr=-5V)	Id			100	nA
Isolation	Iso	-30			dB
Thermistor resistance (at 25°C)	Rth	9.5	10	10.5	kΩ
TEC current	Ic		1.2		А
TEC voltage	Iv		3.0		V
Operating temperature range	То	-20		65	°C
Storage temperature	Tstg	-40		85	°C

Parameter	Symbol	Max.	Unit
Laser forward current	If	200	mA
Laser reverse voltage	Vf	2.5	V
TEC current	Ic	2.0	А
TEC voltage	Vc	3.3	V
Photo reverse voltage	Vrpd	5	V
Lead Soldering Temp.		260	°C
Fiber Bend Radius		30	mm

#### **Ordering Information**

For more information on these or other products and their availability, please contact our sales department at 408-943-0815 in North America and 0760-3338606 in China or via e-mail at sales@agilecom.net.

#### Sample: WSLS-9625102SL0

