

Single mode, up to 1-4mW, 0.2nm, Benchtop or Module



**DATASHEET** 

Return to the Webpage

Agiltron provides cost-effective fiber-coupled laser sources with a wide range emitting spectrum from 370nm to 2000nm and line width from 10kHz to broadband to select. Each benchtop laser source features a pigtailed laser and high-precision, low-noise auto-feedback drive electronics to ensure constant output power or a constant driving current, and an integrated temperature control unit maintains optimal operating conditions. Each unit features a front fiber output connector and a universal power supply compatible with 100 to 240 VAC. We offer two packages: benchtop for ease of use and compact module for system integration. The user interface benchtop includes an intuitive LCD display for independent control of output power and temperature via two front rotating knobs. The module has two front output power and temperature settings. All units have a built-in isolator option to prevent reflection-induced laser emissions instability. We produce fiber-coupled isolators from 370nm to

Min

1

1300

1540

35

**Typical** 

5

1.0

1310

1550

0.2

Max

0.25

15

1.2

1320

1560

0.5

Unit

mW

mW/mA

mA

nm

dB GHz uΑ nΑ

> dB dB

dB

dB/Hz

dB dB dBc dBc

mA

mA

°C °C °C/s

2000nm. An isolator is essential to obtain stable laser output.



### **Parameter**

### Turnkey Laser Source

High Stability

**Features** 

Advanced Feedback Control

### **Applic**

Medic

ELECTROSTATIC

- **Biotec**
- Others

loca i ccabaok control	olde mede supplession hade		l		1		
	Bandwidth	-	2.5				
	Monitor Current	100	-	1200			
cations	Dark Current of Monitor	-	-	100			
. alions	Optical Isolation(Single stage)	35	40	-			
	Optical Isolation(Double stage)	45	50	-			
cal Laser Treatment	Return loss	-	-	-45			
chnology	Analog (	Characteristic inde	x				
oo.ogy	Relative Intensity Noise	-	100 - 1200 100 35 40 -  45 50 - 45  ceteristic index 155 -150  ±1.5  515765				
rs	RF Bandpass Flatness		±1.5				
	Carrier Noise Ratio [1], [2]	51	-	-			
	Composite Second Order [1], [2]	-	-	-57			
	Composite Triple Beat [1], [2]	-	-	-65			
<b>A</b>	Absolute Maximum Ratings						
	LD Forward current			150			
	LD Reverse voltage			2			
- Jake	PD Forward current			2			
	PD Reverse voltage			15			
	Operating temperature	-40		+85			
ATTENTION	Storage temperature	100 35 40 45 50	+100				
ODSTRUE IDECATIONS	Soldering temperature/time		260/10	L			
OBSERVE PRECAUTIONS FOR HANDLING							

**Specifications** 

Rated Power

Slope Efficiency

Threshold Current

Cent Wavelength

Forward Voltage Drop

Spectrum Width(-20dB)

Side-mode Suppression Ratio

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]:

Rev 09/20/25

© Photonwares Corporation

P +1 781-935-1200

E sales@photonwares.com

www.agiltron.com



Single mode, up to 1-4mW, 0.2nm, Benchtop or Module



**DATASHEET** 

### **Benchtop Laser Source Operation Manual**



- Plug in power cable
- Turn on Power Switch
- Setting the Output Power by rotating the knob
- Setting the laser diode Temperature by rotating the knob
- Connect a fiber path cable with matching connector (FC/APC is the default)
- Push the Emission switch to turn on the laser
- Measure the output power to verify

#### **Module Laser Source Operation Manual**



- Plug in power cable
- Turn on Power Switch
- Setting the Output Power by rotating the screw
- Setting the laser diode Temperature by rotating the screw
- Connect a fiber path cable with matching connector (FC/APC is the default)
- Push the Emission switch to turn on the laser
- Measure the output power to verify



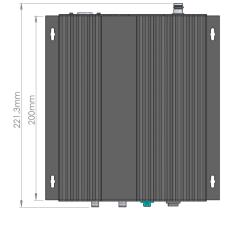
Single mode, up to 1-4mW, 0.2nm, Benchtop or Module



DATASHEET

#### Module (mm): Plug-Play (Power Supply Included)

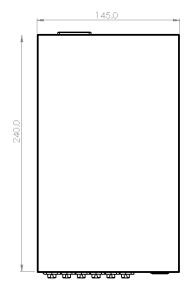


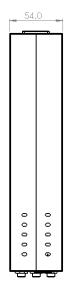






### Benchtop (mm): Plug-Play 100-240VAC, USB







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

© Photonwares Corporation

P +1 781-935-1200

E sales@photonwares.com

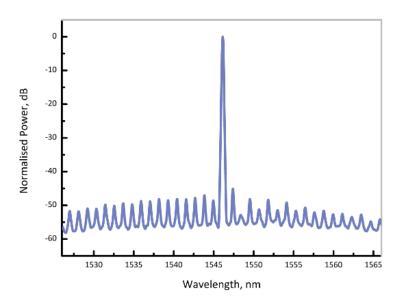
w www.agiltron.com



Single mode, up to 1-4mW, 0.2nm, Benchtop or Module



#### **Typical Spectrum**



### **Ordering Information**

Prefix	Wavelength	Power	Linewidth	Package	Isolator	Control Mode	TEC Cooling	Fiber Type	Connector
FCLS-	1550nm = 1550 1310nm = 1310	2mW = 1 5mW = 5	0.2nm = 1	Benchtop = 1 Module = 2	None = 1 Yes = 2	Constant Current = 2 Constant Power = 1	No = 1 Yes = 2	SM28 = 1 PM1550 = 5 PM1310 = 3 Special = 0	FC/APC = 3 FC/PC = 2 Non = 1 SC/PC = 4 SC/APC = 5 LC/PC = 7 LC/UPC = U Special = 0