

62.5/125 Fiber Coupled LED

850nm, 1310nm, Intensity $\geq 20\text{dBm}$, Bandwidth 50/120nm, Spatially and temporally incoherent



This FLED series fiber-coupled LED diodes features small core 62.5/125 fiber and broad wavelength band of 50 and 120nm for 850 and 1310nm respectively. They are well suited for test and sensor applications which require spatially and temporally incoherent broad wavelength light source. These LED diodes are available in a plug-play metal protection module for convenient use.

Due to their high sensitivity to electrostatic discharge, warranty coverage applies only to fully metal covered modules the bench tops, which include proper protection. Other versions of the lasers and photodetectors are not covered by any warranty. Please use them with great caution.

Features

- Small 62.5 μm Core
- Broad Wavelength Band
- Low Cost

Specifications

Parameter	Min	Typical	Max	Unit
Threshold Current		0		mA
Forward Current		50	80	mA
Forward Voltage	1	1.5	2	V
Polarization Dependence			0.4	dB
Optical Output Power	-20			dBm
Center Wavelength		850 1310		nm
Spectral Linewidth (FWHM)	850nm	45		nm
	1310nm	120		
Connector		ST		
Coherence Length	1		30	μm
Operating temperature (heatsink temperature)	-10		+70	$^{\circ}\text{C}$
Storage Temperature	-40		+70	$^{\circ}\text{C}$
Lead Soldering Temperature			260 (10s)	$^{\circ}\text{C}$

Applications

- Test
- Sensor
- Others



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 05/27/26

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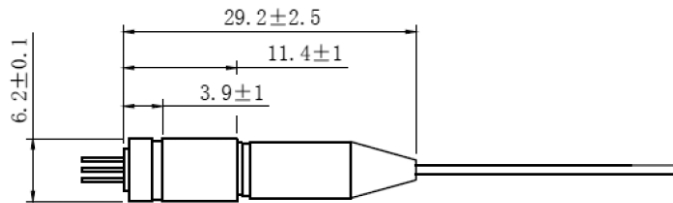


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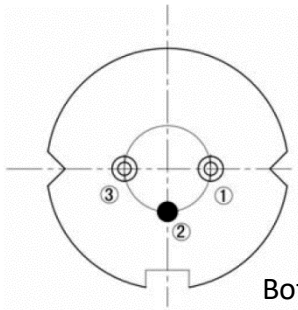
Mechanical Dimension (mm)

Coaxial Package View:



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

PIN Assignment



Bottom View

PIN	Function
1	LED(-)
2	LED(+)
3	N/A

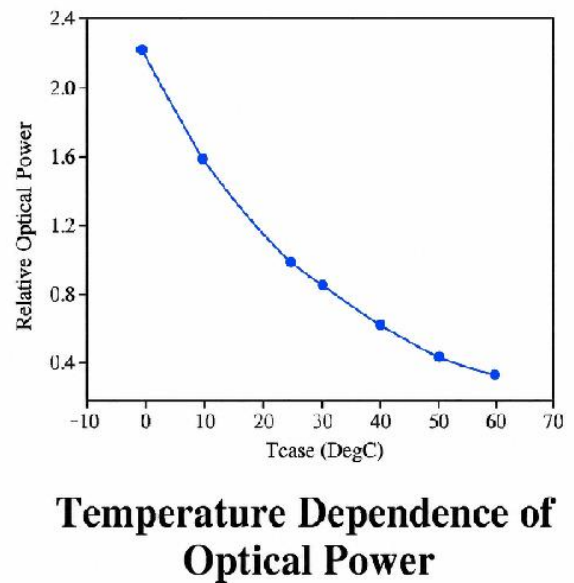
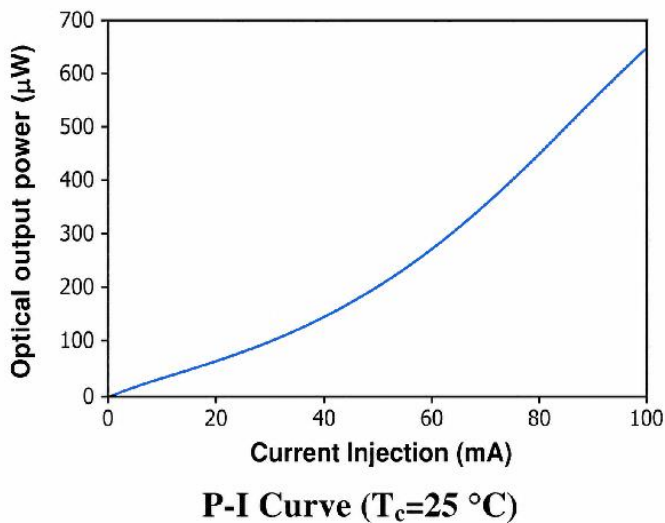
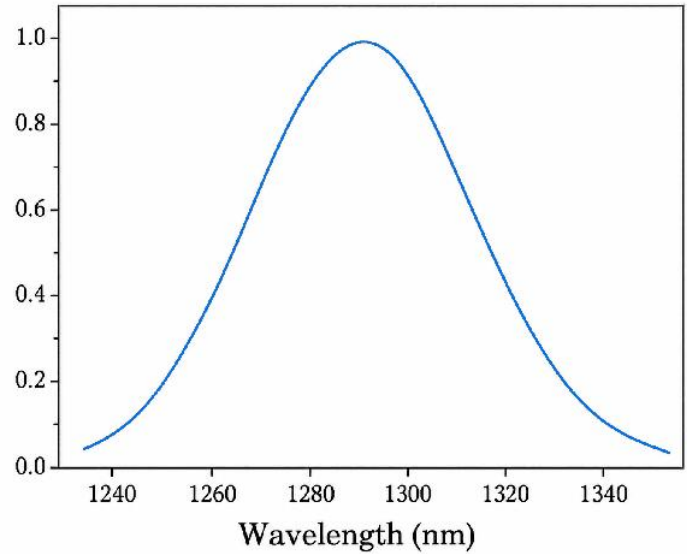
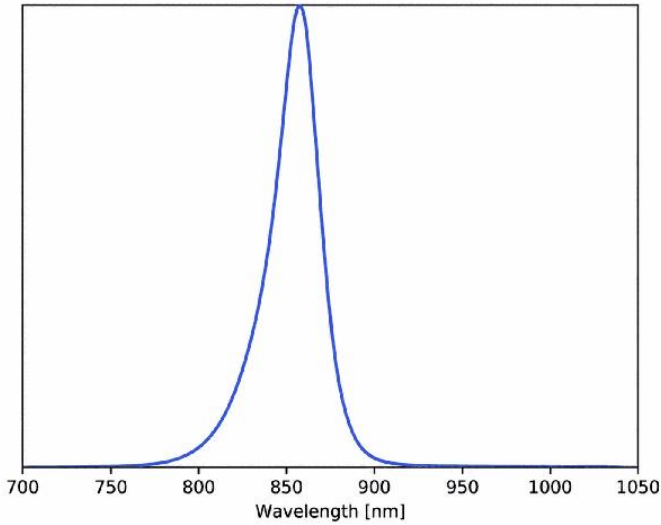
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Typical Spectrum



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Ordering Information (Part Number)

Prefix	Wavelength	Configuration	Package	Fiber Type	Fiber Buffer	Fiber Length	Connector ^[2]
FLED-	850nm = 0850 1310nm = 1310	Component = 1 Module = 2 Special = 0	Coaxial = C Vacuum ^[1] = S	62.5/125 = 6 50/125 = 5 Special = 0	0.9mm Tube = 3 Special = 0	0.5m = 2 0.25m = 1 1.0 m = 3 1.5 m = 5 Special = 0	ST = 1 FC/PC = 2 SC/PC = 4 SC/APC = 5 LC/PC = 7 LC/UPC = U Special = 0

Note:

[1]. Vacuum and Space applicable

[2]. The connector cannot be installed directly onto bare fiber, as it is prone to damage during shipping. However, the connector can be assembled on bare fiber if a 3 cm protective loose tube is added for reinforcement. The customer can remove this protective tube after testing. The optical power handling of a standard connector is less than 0.5 W for SM28 fiber and decreases further with smaller core fibers.

Turn-Key Module



The Agiltron LDCM series light source module features all-in-one high reliability and highly stable light output. The LDCM contains low-noise current driving electronics to ensure constant output power.

LED Source Operation Instructions

1. Plug in the power cord.
2. Light should be output

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Caution Electrostatic Sensitivity



- Never touch laser diode and the module using hands
- Always use protections when handle a laser diode
- Recommend mounting the laser diode using an ionic gun and ESD finger cots



Laser Safety

This product meets the appropriate standard in Title 21 of the Code of Federal Regulations (CFR). FDA/CDRH Class 1M laser product. This device has been classified with the FDA/CDRH under accession number 0220191. All versions of this laser are Class 1M laser products, tested according to IEC 60825-1:2007 / EN 60825-1:2007. An additional warning for Class 1M laser products. For diverging beams, this warning shall state that viewing the laser output with certain optical instruments (for example eye loupes, magnifiers, and microscopes) within a distance of 100 mm may pose an eye hazard. For collimated beams, this warning shall state that viewing the laser output with certain instruments designed for use at a distance (for example telescopes and binoculars) may pose an eye hazard.

Wavelength = 1.3/1.5 μm .

Maximum power = 30 mW.



*Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

*IEC is a registered trademark of the International Electrotechnical Commission.