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SPL635-5-4-PD

TECHNICAL DATA



Pigtailed Coaxial Laser Diode

Features

- 635 nm
- SM Fiber
- Coaxial package
- Built-in PD

Applications

- Medical laser treatment
- Printing



Electrical Connection

	Bottom View			
10	93	m-type		2
	722	PIN	Function	
rd 🗡	→ PD	1	LD Anode	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		2	LD Cathode, PD Cathode	1 3
		3	PD Anode	
(⁰ 2			

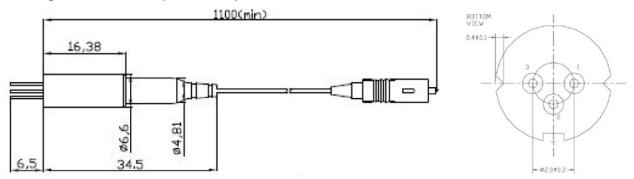
Specifications (25°C)

Туре	Min.	Тур.	Max.	Unit				
Optical Specification								
Output Power P _F	-	5	-	mW				
Center Wavelength λ _C	630	639	645	nm				
Spectral Width Δλ	-	2.0	-	nm				
Fiber Characteristics								
Fiber Kind	-	4	-	μm				
Fiber Length	-	0.8	1.0	m				
Connector FC/SC/SMA905								
Electrical Specification								
Slope Efficiency E _S	0.5	0.8	-	mW/mA				
Threshold Current I _{th}	-	50	55	mA				
Operation Current I _O	-	70	85	mA				
Operation Voltage V _f	-	2.3	2.4	V				
Monitor Current I _m	0.1	0.2	1.0	mA				
PD Reverse Voltage	-	30	-	V				
Package Style	Coaxial							
Absolute Maximum Ratings								
Reverse Voltage V _r	2.0			V				
Operating Temperature T _{Op}	-10 +50			°C				
Storage Temperature T _{stg}	-40 +85			°C				
Lead Soldering Temperature (10 sec.)	260			°C				

The above specifications are for reference purpose only and subjected to change without prior notice.



Package Dimensons (Unit: mm)



Safety of Laser light

Laser Light can damage the human eyes and skin. Do not expose the
eye or skin directly to any laser light and/or through optical lens. When
handling the LDs, wear appropriate safety glasses to prevent laser
light, even any reflections from entering to the eye. Focused laser
beam through optical instruments will increase the chance of eye
hazard.



Cautions

1. Operating methode

- This LD shall change its forward voltage requirement and optical ouput power according to temperature change. Also, the LD will require more operation current to maintain same ouput power as it degrades. In order to maintain output power, use of APC (Automatic Power Control) is recommended. Which use monitor feedback to adjust the operation current.
- Confirm that electrical spike current generated by swithing on and off does not exceed the
 maximum operating current level specified herein above as absolute maximum rating. Also,
 employ appropriat countermeasures to reduce chattering and/or overshooting in the circuit.

2. Static Electricity

• Static electricity or electrical surges will reduce and degrade the reliability of the LDs. It is recommended to use a wrist trap or anti-electrostatic glove when handeling the product.

3. Absolute Maximum Rating

Active layer of LDs shall have high current density and generate high electric field during its
operation. In order to prevent excessive damage, the LD must be operated strictly below
absolute maximum rating.

