

ROITHNER LASERTECHNIK GIRDH

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SPL980-100-105M-PD



TECHNICAL DATA

Pigtailed Coaxial Laser Diode

Features

- 980 nm
- MM Fiber
- Coaxial package
- Built-in PD

Applications

- · Medical laser treatment
- Printing



Electrical Connection

Pin Configuration					Bottom View
10	3	n-type			2
15	755	PIN	Function		
rd 📉	→ PD	1	LD Anode		}
		2	LD Cathode, PD Cathode		1 3
		3	PD Anode		
02					

Specifications (25°C)

Туре	Min.	Тур.	Max.	Unit				
Optical Specification								
Output Power P _F	-	100	1	mW				
Center Wavelength λ _C	970	980	990	nm				
Spectral Width Δλ	-	2.0	-	nm				
Fiber Characteristics								
Fiber Core Size	-	105	-	μm				
Fiber Length	-	0.8	1.0	m				
Connector	F							
Electrical Specification								
Slope Efficiency E _S	8.0	0.9	-	mW/mA				
Threshold Current Ith	-	55	-	mA				
Operation Current I _O	-	350	-	mA				
Operation Voltage V _f	-	1.9	2.2	V				
Monitor Current I _m	-	2.0	-	mA				
PD Reverse Voltage	-	30	-	V				
Package Style		Coaxial						
Absolute Maximum Ratings								
Reverse Voltage V _r	2.0			V				
Operating Temperature T _{Op}	-10 +40			°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.



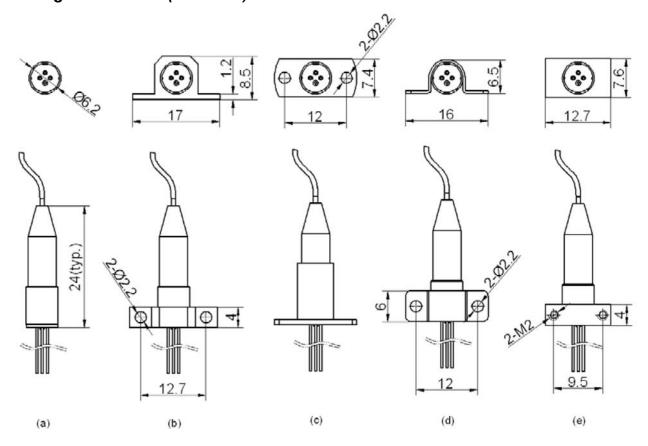
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Package Dimensons (Unit: mm)





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.



• These LDs are emitting invisible light.

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.

