

RLCO-980-1000-F

TECHNICAL DATA



High Power Infrared Laser Diode

Features

Lasing Mode Structure: multi mode
Peak Wavelength: typ. 980 nm
Optical Output Power: 1 W

Package: 4-pin DIL



Specifications

Item	Symbol	Min.	Тур.	Max.	Unit
Optical Specifications					
CW Output Power	Po	1	1	-	W
Center Wavelength	λ_{C}	970	980	990	nm
Spectral Width (FWHM)	Δλ	ı	3.5	4.5	nm
Fiber Buffer		ı	900	-	μm
Fiber Clad		ı	125	-	μm
Fiber Core		ı	105	-	μm
Numerical Aperture		-	0.22	-	
Fiber Length		-	1.0	-	m
Connector		SMA-905			
Electrical Specifications					
Threshold Current	I _{th}	ı	0.55	0.60	Α
Operating Current	l _{op}	ı	2	2.5	Α
Slope Efficiency	Н	0.5	0.6	-	W/A
Operating Voltage	U _{op}	ı	1.9	2.2	V
Wavelength Temperatur Coefficient		ı	0.3	-	nm/°C
Operating Temperature	T _{op}	ı	25	-	°C
Storage Temperature	T _{stq}	-20	-	80	°C

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



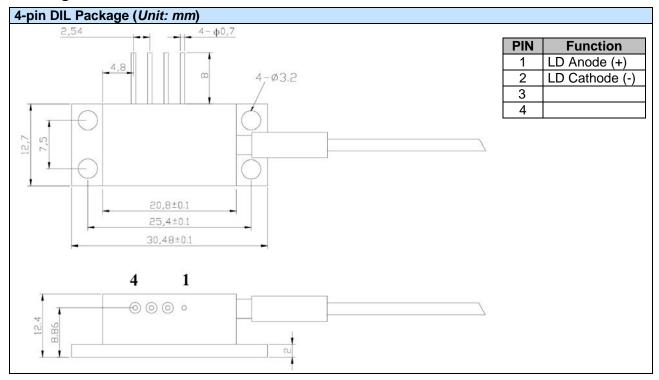
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Package Dimensons





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.



• This LD is 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.
- Confirm that electrical spike current generated by switching 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.

