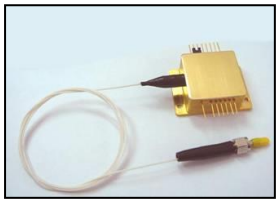
ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44, OFFICE@ROITHNER-LASER.COM

RLCD-M66H-750



TECHNICAL DATA

High Power Red Fiber Coupled Laser Diode

Rev. 1.1, 11/2019

Features

- Output Power: 750 mW
- 660 nm Emission Wavelength
- Spectral Width: ≤3 nm

Applications

- Photo Dynamic Treatment
- Research with visible photo sensitive materials and therapies

Specifications (25°C)

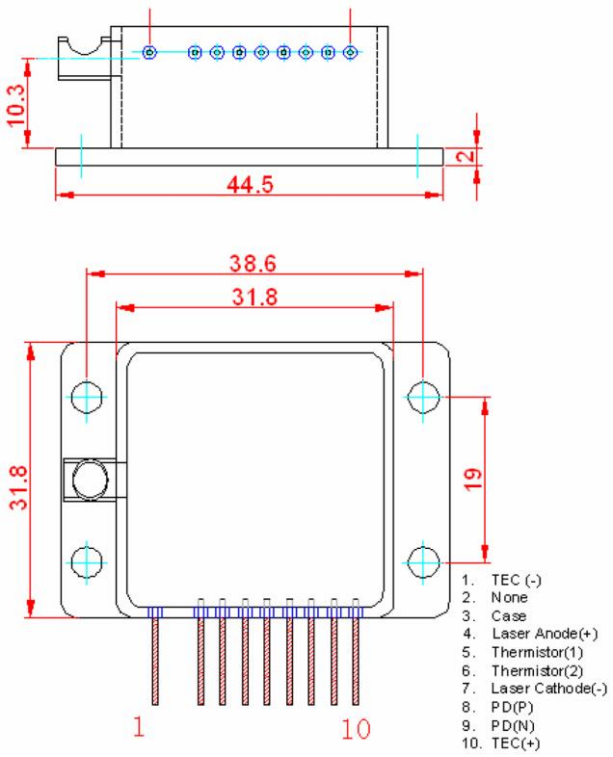
Type	Symbol	Min.	Typ.	Max.	Unit
Infrared Laser					
Output Power	P_F	-	750	-	mW
Center Wavelength	λ_C	650	660	670	nm
Spectral Width	$\Delta\lambda$	-	-	3.0	nm
Threshold Current	I_{th}		400		mA
Operation Current	I_{op}		1.5		A
Operation Voltage	V_{op}			2.2	V
Package Style			9-Pin HHL		
TEC					
Thermistor Value (25°C)			(10 ±0.5)		KΩ
TEC Max. Current			4.0		A
TEX Max. Voltage			9.8		V
Fiber Characteristics					
Fiber Bundle Diameter		-	105	-	µm
Fiber Numerical Aperature		-	0.22	-	
Fiber Length		-	0.7	-	m
Connector			FC/ST/SMA905		
Absolute Maximum Ratings					
LD Reverse Voltage	U_r		2.0		V
Operating Temperature	T_{op}		+10 … +20		°C
Storage Temperature	T_{stg}		-20 … +80		°C
Lead Soldering Temperature (10 sec.)	T_{sol}		260		°C

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

ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44, OFFICE@ROITHNER-LASER.COM

Dimensions (mm)

9 pin HHL:



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 method

- 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 striclty below absolute maximum rating.