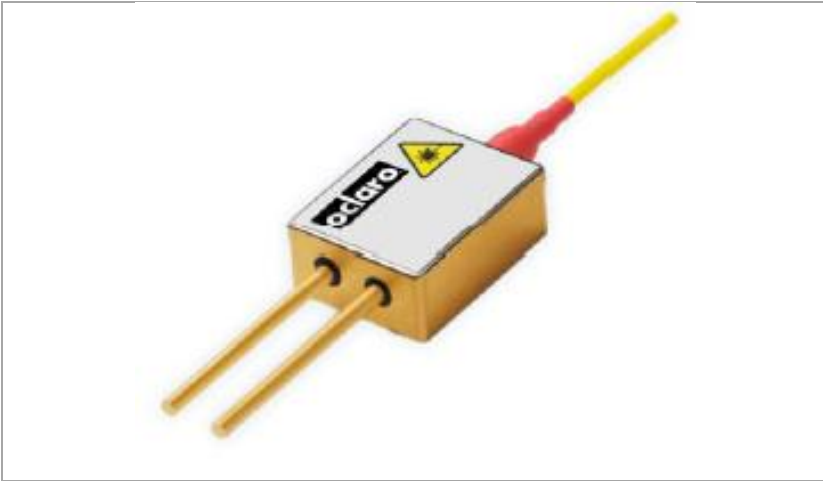


## 2.5W 793nm Uncooled Multimode Laser Diode Module


BMU3-793-02-R



The Oclaro BMU3-793-02-R multimode laser diode module series has been designed to provide the high power and reliability required for pumping Thulium fibre lasers and for direct applications.

The module includes a multimode laser diode chip with E2 front mirror passivation that prevents Catastrophic Optical Damage (COD) to the laser diode facet even at very high power levels. The coupling process allows for high output powers that are very stable with both time and temperature.

### Features:

- High output power of min. 2.5W
- 0.22NA 105 $\mu$ m core multimode optical fiber
- Hermetically sealed 2-pin package
- Floating anode/cathode
- High reliability
- Excellent solderability
- RoHS compliant 

### Applications:

- Thulium fiber laser pumping
- Medical
- Analytical

## Operating Characteristics

Conditions unless otherwise stated:

Parameters at 25°C heat sink temperature and use of a thermal interface material rated for a thermal contact resistance of less than 1.3cm<sup>2</sup> K/W. Optical fibre with 105µm core diameter and 0.22NA.

Parameter	Min	Typ	Max	Unit	Conditions
CW Output Power	2.5			W	
Centre Wavelength	790	793	796	nm	
Spectral Width (-13dB)		3		nm	
Threshold Current		0.6		A	
Slope Efficiency		0.97		W/A	
Operating Current			4	A	
Operating Voltage		2		V	

## Absolute Ratings

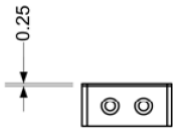
Parameter	Min	Typ	Max	Unit	Conditions
ESD	–		500	V	HBM, C=100pF, R=1.5 kOhm
Storage temperature	-40		85	°C	non-condensing
Lead soldering temperature	–		320	°C	
Lead soldering time	–		10	Sec	
Operating case temperature	15		60	°C	Reliability impacted if operating point deviates from reference condition
Relative humidity	5		85	%	
Fiber bend radius	25			mm	

## Fiber Specification

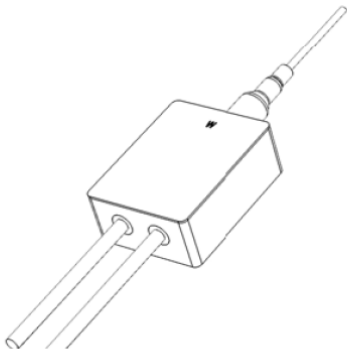
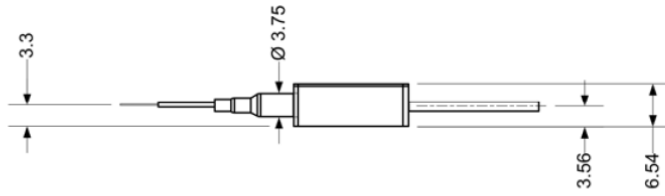
Parameter	Min	Typ	Max	Unit	Conditions
Buffer diameter	230	250	270	µm	
Cladding diameter	123	125	128	µm	
Core diameter	102	105	108	µm	
Numeric aperture	–	0.22	–	–	
Fiber length	–	1.5	–	m	

Package Dimensions (mm)

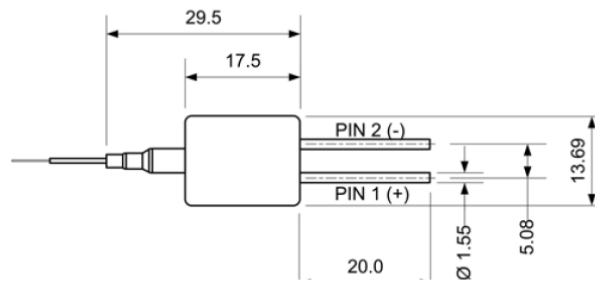
Back View (Pins Side):



Side View:



Top View (Oclaro Label):



Remarks: Mounting clip is available upon request

RoHS Compliance



Oclaro is fully committed to environment protection and sustainable development and has set in place a comprehensive program for removing polluting and hazardous substances from all of its products. The relevant evidence of RoHS compliance is held as part of our controlled documentation for each of our compliant products. RoHS compliance parts are available to order, please refer to the ordering information section for further details.

Ordering Information:

BMU3-793-02-R 2.5W 793±3nm Multimode Laser Diode Module with 105µm 0.22NA fibre

Contact Information

[www.oclaro.com](http://www.oclaro.com)

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by Oclaro before they become applicable to any particular order or contract. In accordance with the Oclaro policy of continuous improvement specifications may change without notice. Further details are available from any Oclaro sales representative.



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