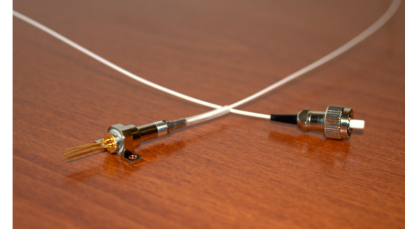


## ML1962

1310 nm coaxial FP laser module for pulsed applications

### Overview

Modulight's ML1962 is a high-performance single transverse mode 1310 nm Fabry-Pérot laser in a coaxial fiber pigtailed package. The laser emits 85 mW pulsed peak power (10  $\mu$ s PW, 1% DC) at 1310 nm wavelength. This fiber pigtailed laser is designed to be used as light source in fiber optic test and measurement equipment.



### Applications

Defense	Industrial	Communications
Test & Measurement	Test & Measurement	Test & Measurement

### Electro-optical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit
Central Wavelength (for typical $I_{OP}$ )	$\lambda$	1290	1310	1330	nm
Optical Output Power (Peak Power)	$P_{OPT}$	-	85	-	mW
Operating Current (for typical $P_{OPT}$ )	$I_{OP}$	-	750	850	mA
Operating Voltage	$V_{OP}$	-	1.5	2.0	V
Slope Efficiency	$\eta$	-	0.11	-	W/A
Threshold Current	$I_{TH}$	-	40	60	mA
Spectral Width	$\Delta\lambda$	-	4	7	nm

All above values are for operation @ 25°C. If not otherwise stated, the characteristics are for operation under pulse current (pulse width = 10  $\mu$ s and duty cycle 1 %).

### Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
LD Forward Current	$I_{FLD}$	1000	mA
Operating Temperature Range	$T_{OP}$	0...70 <sup>1</sup>	°C
Storage Temperature Range	$T_{ST}$	-40...85	°C

<sup>1</sup> A non-condensing environment should be ensured over the useful temperature range.

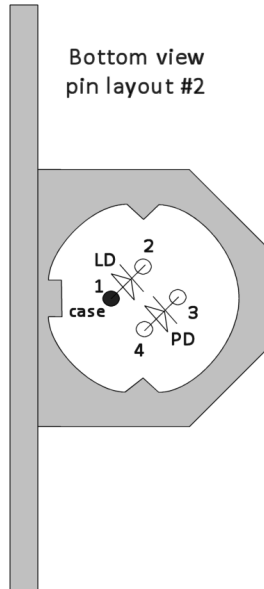
### Optical Fiber Specification

Parameter	Symbol	Value	Unit
Fiber Length	L	100	cm
Mode Field Diameter	$\varnothing_{CORE}$	9	$\mu$ m
Cladding Diameter	$\varnothing_{CLAD}$	125	$\mu$ m
Outer Diameter	$\varnothing_{OUT}$	900	$\mu$ m
Minimum Fiber Bending Radius	d	30	mm
Connector type		FC/PC	

### Mechanical Specification

Please contact Modulight sales team for detailed information of the package dimensions.

### Pin Layout



The default pin layout is #2 (shown). Other pin layouts are available as per customer request. Monitoring photodiode is optional, not included by default.

### Safety Information

- The laser light emitted from this laser diode is invisible and potentially harmful to the human eye. Avoid eye and skin exposure to the beam, both direct and reflected.
- Products are subject to the risks normally associated with sensitive electronic devices including static discharge, transients, and overload. Please ensure ESD protection prior to handling the products.
- These Modulight products are not intended for use in systems where product malfunction can reasonably be expected to result in personal injury.



Peak power and wavelength are for safety analysis only, not to present device performance.

### Liability note

This document is sole property of Modulight, Inc. No part of this document may be copied without written acceptance of Modulight, Inc. All statements related to the products herein are believed to be reliable and accurate. However, the accuracy is not guaranteed and no responsibility is assumed for any inaccuracies or omissions. Modulight, Inc. reserves the right to make changes in the specifications at any time without prior notice.