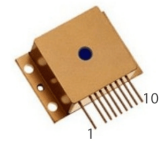




## PRODUCT DATA SHEET

Laser Diode (HHL w/window package)

Model FB-M1450-1500HO



1-TEC (-)  
 2-  
 3-  
 4- Laser Anode(+)  
 5- Thermistor (2)  
 6- Thermistor (1)  
 7- Laser Cathode (-)  
 8- PD Anode (+)  
 9- PD Cathode (-)  
 10- TEC (+)

Specification	Symbol	Typical	Unit
<b>Laser Emitter</b>			
Peak Wavelength	$\lambda_{op}$	1450±20	nm
CW Optical Output Power	$P_{op}$	1.5	W
Operation Current	$I_{op}$	<4.5	A
Operation Voltage	$U_{ld}$	1.1±0.1	V
Threshold Current	$I_{th}$	< 0.9	A
Beam Divergence (FWHM)	$\theta_{  }$	16±3	degree
Beam Divergence (FWHM)	$\theta_{\perp}$	1±0.3	degree
Spectrum Half-Width (FWHM)	$\Delta\lambda$	<7	nm
Emitting Area	$W \times d$	100x1	$\mu m \times \mu m$
Operation Mode	-	CW, QCW, Pulse ( $\tau > 5ns$ )	-
Operation Temperature	Top	25	degree
<b>Photo Diode Monitor</b>			
PD Monitor Current		1-1000	$\mu A$
PD Reverse Voltage		9	V
<b>TEC</b>			
Maximum Current		5	A
Maximum Operation Voltage		3,8	V
<b>Thermistor</b>			
Resistance		10	kilohm
Wavelength Temperature Coefficient	$\Delta\lambda/\Delta T$	5.5±0.5	Å/degree
Operation Current Temperature Coefficient	$\Delta I/\Delta T$	20±5	mA/degree
Operation Temperature Range		-20... +40	degree
Storage Temperature Range		-40... +80	degree



**PRODUCT WARRANTY:**

This product is sold with a full one year warranty. The warranty includes all parts and labor. It is warranted to be free from defects in material and workmanship for a period of one year from the date of shipment. The warranty does not include damage to the product due to customer mishandling or use of the product outside of its specified maximum ratings.

**INSTALLATION SUPPORT OR TECHNICAL SUPPORT FOR THIS PRODUCT:**

**800-887-5065 extension 1**  
**[contact@laserdiodesource.com](mailto:contact@laserdiodesource.com)**



Part of the Laser Lab Source Group:  
[LaserLabSource.com](http://LaserLabSource.com)  
[LaserDiodeSource.com](http://LaserDiodeSource.com)  
[LaserDiodeControl.com](http://LaserDiodeControl.com)  
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