

AeroDiODE



**LASER DIODE SOURCE**

part of the Laser Lab Source Group

[LaserDiodeSource.com](http://LaserDiodeSource.com)

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## 450 nm laser diode

Model 2: 7 W / 105  $\mu$ m fiber / SMA connector

Reference: 450LD-2-0-0

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	W	7		
Center Wavelength	nm	440	450	460
Spectral Width (FWHM)	nm		3.0	5.0
Threshold Current	A		0.25	0.3
Operating Current	A		2.0	2.5
Operation Voltage	V		14.0	15.0
Conversion Efficiency	%		20	
Wavelength shift w Temperature	nm/°C		0.3	
Slope Efficiency	W/A		2.5	
Storage Temperature	°C	-30	25	70
Case Operating Temperature	°C	15	25	55
Minimum Fiber Bend Radius	mm	40		
Fiber Buffer/tube Diameter	$\mu$ m		900	
Fiber Clad Diameter	$\mu$ m		125	
Fiber Core Diameter	$\mu$ m		105	
Numerical Aperture	NA		0.22	
Soldering Temperature	°C			260
Soldering time	s			10
Dimensions	mm	123.5*50*22		
Mounting holes diameter/distance	mm	$\varnothing 3.5$ / 27.3*56.35		
Fiber connector		Yes (SMA)		
ROHS Compliant		Yes		

