

450 nm laser diode

Model 3: 20 W / 105 μm fiber / SMA connector

Reference: 450LD-3-0-0

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	W	20		
Center Wavelength	nm	440	450	460
Spectral Width (FWHM)	nm		3.0	5.0
Threshold Current	A		0.25	0.5
Operating Current	A		3.0	3.5
Operation Voltage	V		27.0	33.0
Conversion Efficiency	%		20	
Wavelength shift w Temperature	nm/°C		0.3	
Slope Efficiency	W/A		7.2	
Storage Temperature	°C	-30	25	70
Case Operating Temperature	°C	15	25	55
Minimum Fiber Bend Radius	mm	40		
Fiber Buffer/tube Diameter	μm		900	
Fiber Clad Diameter	μm		125	
Fiber Core Diameter	μm		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	Ø3.5 / 27.3*56.35		
Fiber connector		Yes (SMA)		
ROHS Compliant		Yes		

