


LD-1064-BA-18W	
High Power Diode Laser on open heatsink – 18W @ 1064nm	
	<b>Features:</b> <ul style="list-style-type: none"> <li>• 65% conversion efficiency laser diode</li> <li>• CW, quasi-CW operation</li> <li>• Proprietary mirror coating technology enabling long life-time</li> <li>• High reliable Au/Sn-bonding of chip to C-mount open heatsink</li> <li>• 100 hours burn-in test passed<sup>1</sup></li> </ul>
	<b>Applications:</b> <ul style="list-style-type: none"> <li>• Medical</li> <li>• Direct materials processing</li> </ul>
<b>Specification</b> for engineering samples	DATE: 23 <sup>rd</sup> Sep. 2008

SPECIFICATIONS				
Test conditions: heatsink temperature 25°C, output power 18 W in CW operation				
Parameters	Min.	Typ.	Max.	Unit
Output power	18.0			W
Central wavelength	1054	1064	1074	nm
Wavelength temperature tunability	0.35	0.4	0.45	nm/°C
Spectral width (FWHM)		4	8	nm
Operating current		19	21	A
Threshold current		0.9	1.3	A
Forward voltage		1.5	1.7	V
Power conversion efficiency	60	65		%
Aperture size		250x1		µm <sup>2</sup>
Divergence parallel to p-n junction (FWHM)	6	8	11	deg.
Divergence perpendicular to p-n junction (FWHM)	31	33	35	deg.
Power drop during 100 hours burn-in test <sup>1</sup>			1	%

<sup>1</sup> Burn-in test conditions: heatsink temperature 60°C, output power 18W

ABSOLUTE MAXIMUM RATINGS				
Parameters	Min.	Typ.	Max.	Unit
Lead soldering temperature		250 (5 sec.)		°C
Anode reverse voltage		1		V
Forward current			23	A
Storage temperature range (in original sealed pack)	5		80	°C
Operating temperature range	above dew point		60	°C

## DIMENSIONS

All sizes in mm

