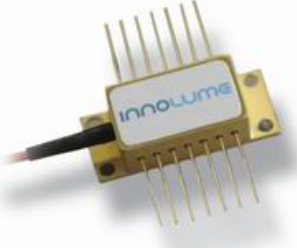
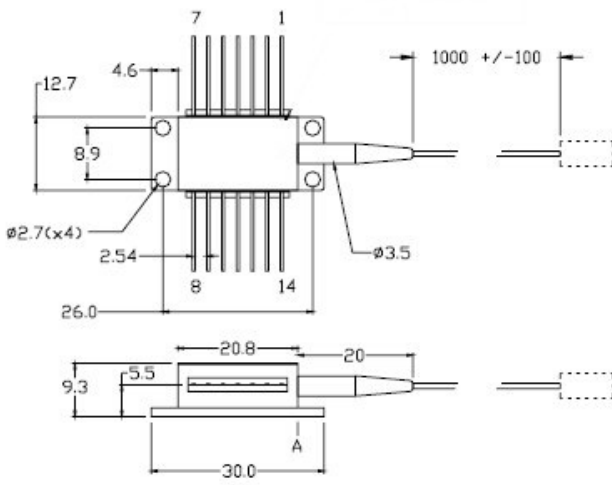


<b>LD-1118-FBG-100</b>	
FBG coupled Laser Diode Module – 100mW @1118nm	
	<p><b>Features:</b></p> <ul style="list-style-type: none"> <li>Fiber Bragg Grating stabilized external cavity laser</li> <li>100mW output power in &lt;0.1nm spectral line</li> <li>Polarization maintaining single-mode fiber pigtail</li> <li>Integrated thermoelectric cooler and thermistor for temperature control</li> <li>On request: integrated monitor photodiode for power control</li> <li>On request: FC/APC fiber connector</li> </ul> <p><b>Application:</b></p> <ul style="list-style-type: none"> <li>Yellow-green light second-harmonic generation</li> </ul>
<b>Target Specification</b>	DATE: 7 <sup>th</sup> Apr. 2008

<b>SPECIFICATIONS</b>				
Test conditions: CW operation, Chip and Case Temperature 25°C				
Parameters	Min.	Typ.	Max.	Unit
Optical output power	100			mW
Peak wavelength	1117.5	1118.0	1118.5	nm
Spectral Bandwidth @ -3dB (multi longitudinal modes)		50	65	pm
Threshold current		50	120	mA
Operating current		350	500	mA
Operating voltage		1.4	1.6	V
Polarization Extinction Ratio (PER)	13	15		dB
Thermistor resistance	9.5	10.0	10.5	kOhm
TEC Current			4	A
TEC Voltage			4.5	V
Distance from FBG to laser diode	800	1000	1200	mm
Operating chip temperature	20		30	°C
Operating case temperature	15	25	45	°C

<b>DIMENSIONS</b>																																	
All sizes in mm																																	
	<p><b>Fiber:</b>                      Corning PM980, 1.5m length</p> <p><b>Pin connections:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Pin#</th> <th style="width: 40%;">Description</th> <th style="width: 10%;">Pin#</th> <th style="width: 40%;">Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>TEC "+"</td> <td>8</td> <td></td> </tr> <tr> <td>2</td> <td>Thermistor</td> <td>9</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>10</td> <td>Laser anode (+)</td> </tr> <tr> <td>4</td> <td></td> <td>11</td> <td>Laser cathode (-)</td> </tr> <tr> <td>5</td> <td>Thermistor</td> <td>12</td> <td></td> </tr> <tr> <td>6</td> <td></td> <td>13</td> <td>Case ground</td> </tr> <tr> <td>7</td> <td></td> <td>14</td> <td>TEC "-"</td> </tr> </tbody> </table>	Pin#	Description	Pin#	Description	1	TEC "+"	8		2	Thermistor	9		3		10	Laser anode (+)	4		11	Laser cathode (-)	5	Thermistor	12		6		13	Case ground	7		14	TEC "-"
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