

LASER COMPONENTS GmbH

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Datasheet for Laser Components Leadchalkogenide - Diodelaser

Order Number :
LC Order Number :
Part Number : 03-LI325HV-76
Customer Name :

Lasertype : IR-1475...
Wavenumber : 1475.....
Region : cm⁻¹.....

Special Conditions : IR-1475-GMP-Premium.
.....

Polarity : +
Housing (groun) : -

Operator : Huber.....
Serial Number : 325-HV-1-76..... Max Operationtemp / K : 95.....
Date : 03/Jul/2002 Max Diode Current cw / mA : 640.....

Record of Laser No. 325-HV-1-76

Date : 03/Jul/2002

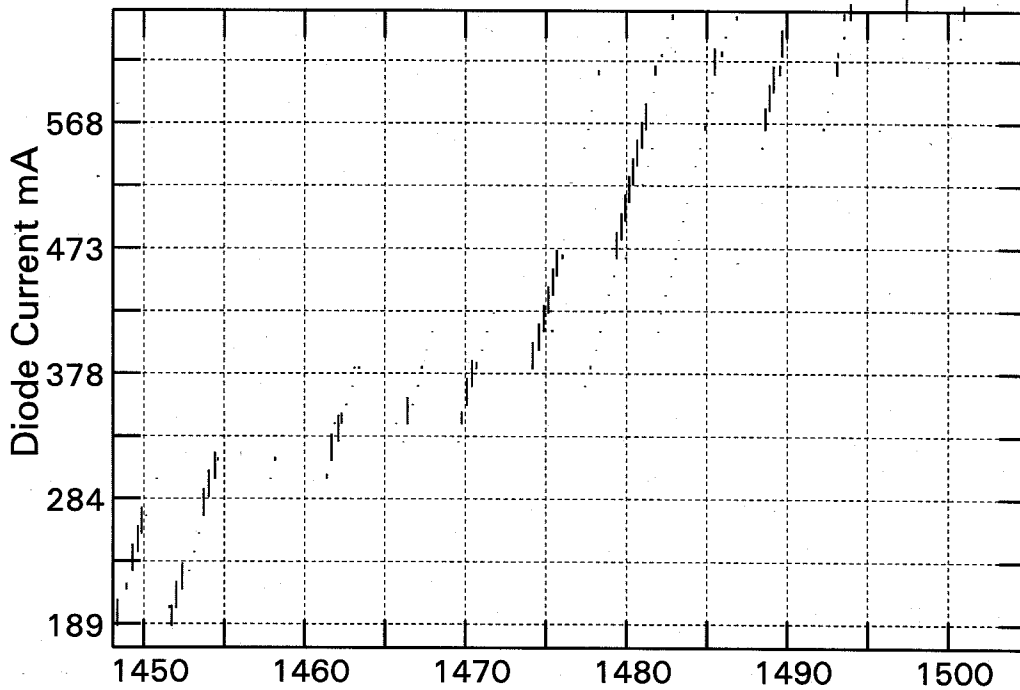
Operator: Huber

| T / K | threshold current I _{th} /mA | wavenumber at threshold cm ⁻¹ | maximum current I _m /mA | maximum total power P _m /mWatt |
|-------|--|--|--|---|
| 80 | 169 | 1435 | 631 | 0.59 |
| 82 | 174 | 1448 | 589 | 0.48 |
| 84 | 174 | 1453 | 574 | 0.42 |
| 88 | 177 | 1471 | 551 | 0.29 |

Definition :

maximum total power : the power which the laser diode radiates at maximum current.

Modal Distribution



| max modal Power % | total Power mWatt |
|-------------------|-------------------|
| 35.52 | - 0.0214- L |
| 83.35 | - 0.2726- L |
| 68.29 | - 0.1945- L |
| 41.46 | - 0.0906- L |
| 96.14 | - 0.4517 |
| 93.27 | - 0.4331 |
| 47.24 | - 0.3846 |
| 93.78 | - 0.3910- L |
| 98.25 | - 0.4102- L |
| 96.42 | - 0.3884- L |
| 99.30 | - 0.3768 |
| 99.29 | - 0.3646 |
| 98.31 | - 0.3530 |
| 82.99 | - 0.3518- L |
| 93.39 | - 0.2941 |
| 95.59 | - 0.3007 |
| 95.88 | - 0.2935- L |
| 88.36 | - 0.2598- L |
| 94.92 | - 0.2255 |
| 62.21 | - 0.1222- L |
| 89.13 | - 0.1965 |
| 93.16 | - 0.2380 |
| 51.89 | - 0.2064- L |
| 97.87 | - 0.2038 |
| 81.85 | - 0.1701 |
| 81.83 | - 0.1832 |
| 100.00 | - 0.1765 |
| 97.94 | - 0.1559 |
| 96.64 | - 0.1489 |
| 97.83 | - 0.1266 |
| 97.17 | - 0.0952 |
| 80.59 | - 0.0479 |
| 92.20 | - 0.0572- L |
| 56.26 | - 0.0186 |
| 100.00 | - 0.0108 |

07/03/02

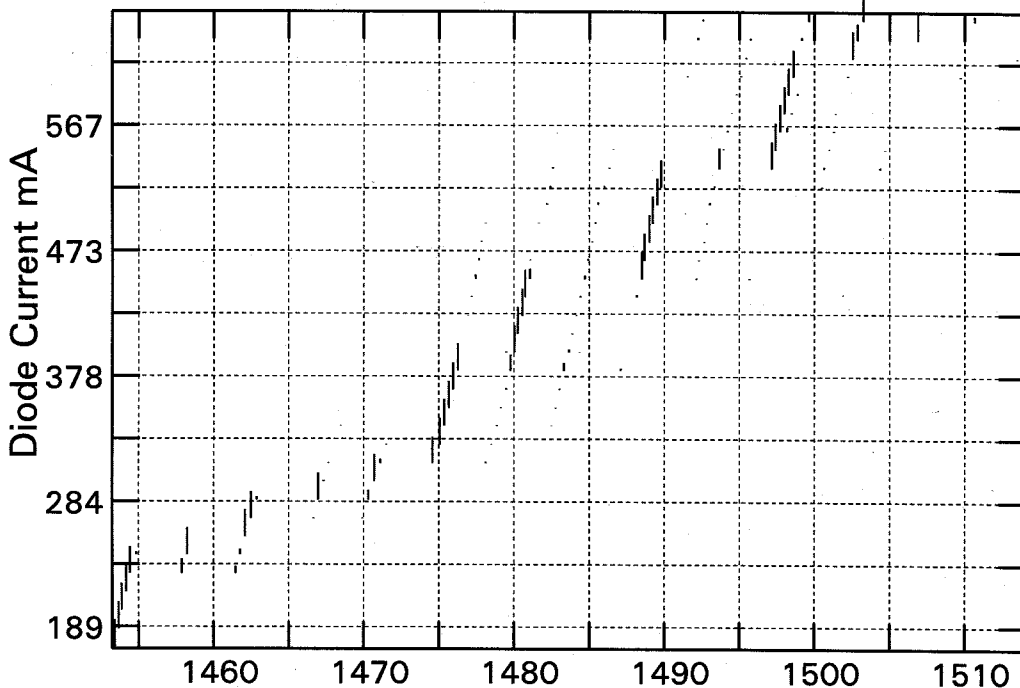
Mode position in cm-1

Operator:Huber

Laser: 325-HV-1-76

Temperature: 82.00 K

Modal Distribution



| max modal Power % | total Power mWatt |
|-------------------|-------------------|
| 58.11 | - 0.0931 |
| 50.77 | - 0.1936- L |
| 98.40 | - 0.3774 |
| 91.48 | - 0.2644- L |
| 94.13 | - 0.3846- L |
| 95.22 | - 0.4078- L |
| 85.94 | - 0.4081- L |
| 94.60 | - 0.3832 |
| 52.27 | - 0.1910 |
| 89.83 | - 0.2244 |
| 83.94 | - 0.1663 |
| 94.10 | - 0.2546- L |
| 96.45 | - 0.3271 |
| 89.59 | - 0.2955- L |
| 60.26 | - 0.2883- L |
| 89.03 | - 0.2647 |
| 98.09 | - 0.2563 |
| 98.74 | - 0.2418 |
| 87.82 | - 0.1045- L |
| 50.83 | - 0.1004 |
| 94.06 | - 0.1849 |
| 96.74 | - 0.1983 |
| 96.51 | - 0.1962- L |
| 97.23 | - 0.1893 |
| 81.45 | - 0.1614 |
| 98.33 | - 0.1875 |
| 69.12 | - 0.1687 |
| 98.29 | - 0.1730 |
| 100.00 | - 0.1582 |
| 76.52 | - 0.0700- L |
| 55.28 | - 0.0761 |
| 100.00 | - 0.0917 |
| 100.00 | - 0.0705 |
| 95.65 | - 0.0401 |
| 100.00 | - 0.0107 |

07/03/02

Mode position in cm-1

Operator:Huber

Laser: 325-HV-1-76

Temperature: 84.00 K