

LASER COMPONENTS GmbH

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Datasheet for Laser Components Leadchalkogenide - Diodelaser			
Order Number : LC Order Number : Part Number : 03-Li392HV-17 Customer Name :	Lasertype : IR-2405... Wavenumber : 2405..... Region : cm ⁻¹		
Special Conditions : IR-2405-GMP.....	Polarity : + Housing (groun) : -		
Operator : HUber..... Serial Number : 392-HV-1-17..... Max Operationtemp / K : 109.... Date : 14/Apr/2003 Max Diode Current cw / mA : 1170...			

Record of Laser No. 392-HV-1-17

Date : 14/Apr/2003

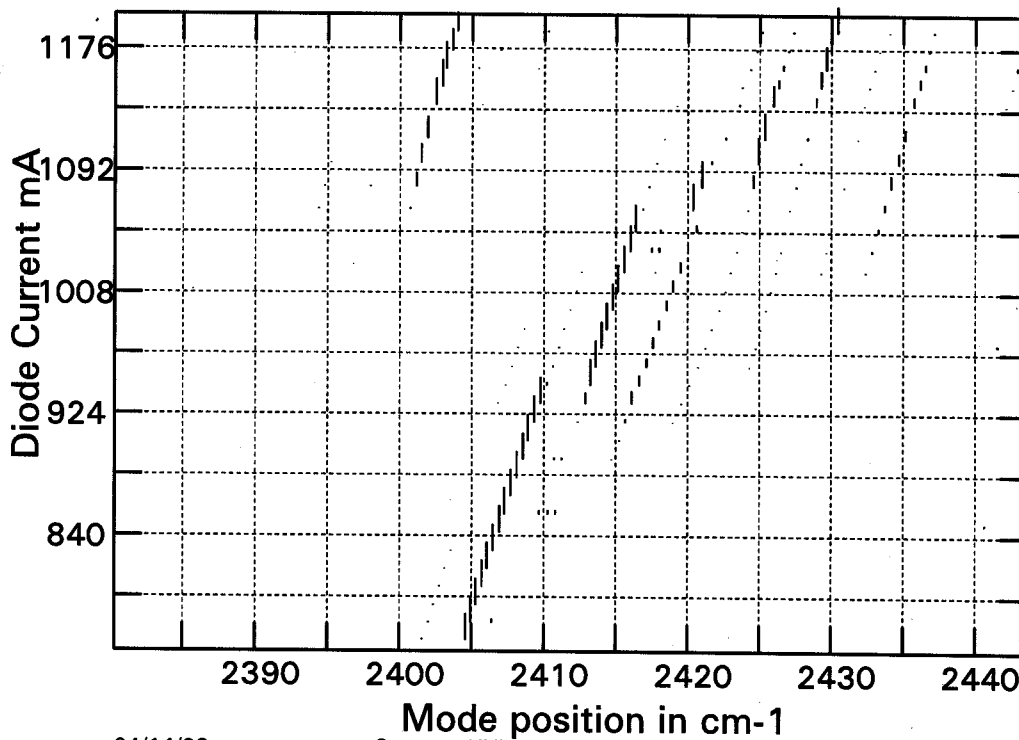
Operator: HUber

T / K	threshold current I _{th} /mA	wavenumber at threshold cm ⁻¹	maximum current I _m /mA	maximum total power P _m /mWatt
77	725	2332	1156	1.04
80	698	2332	1161	1.07
83	707	2335	1147	0.77
86	717	2342	1152	0.80
89	735	2352	1157	1.00
90	745	2354	1161	0.90
93	750	2367	1157	1.08
96	759	2380	1162	0.82
99	771	2407	1161	0.59
100	770	2409	1162	0.54
103	793	2413	1157	0.46
106	821	2427	1161	0.41
109	855	2442	1162	0.37

Definition :

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

Modal Distribution



max modal Power %	total Power mWatt
48.08	- 1.1484
43.97	- 0.8317- L
40.39	- 0.8171- L
43.15	- 0.7364
39.04	- 0.7237
42.49	- 0.6801
43.76	- 0.6023
39.26	- 0.5765
72.77	- 0.5350
67.37	- 0.4883- L
56.35	- 0.4465- L
69.62	- 0.4113- L
68.91	- 0.3759- L
70.77	- 0.3483- L
71.20	- 0.3504
67.65	- 0.3251- L
71.20	- 0.3065
65.69	- 0.2891- L
51.68	- 0.2917- L
88.56	- 0.3071
98.15	- 0.3007
88.79	- 0.2833- L
100.00	- 0.2601
100.00	- 0.2322
71.48	- 0.2180- L
100.00	- 0.1939
99.46	- 0.1730
99.41	- 0.1544
99.22	- 0.1271
98.79	- 0.0929
86.97	- 0.0610- L
94.74	- 0.0280

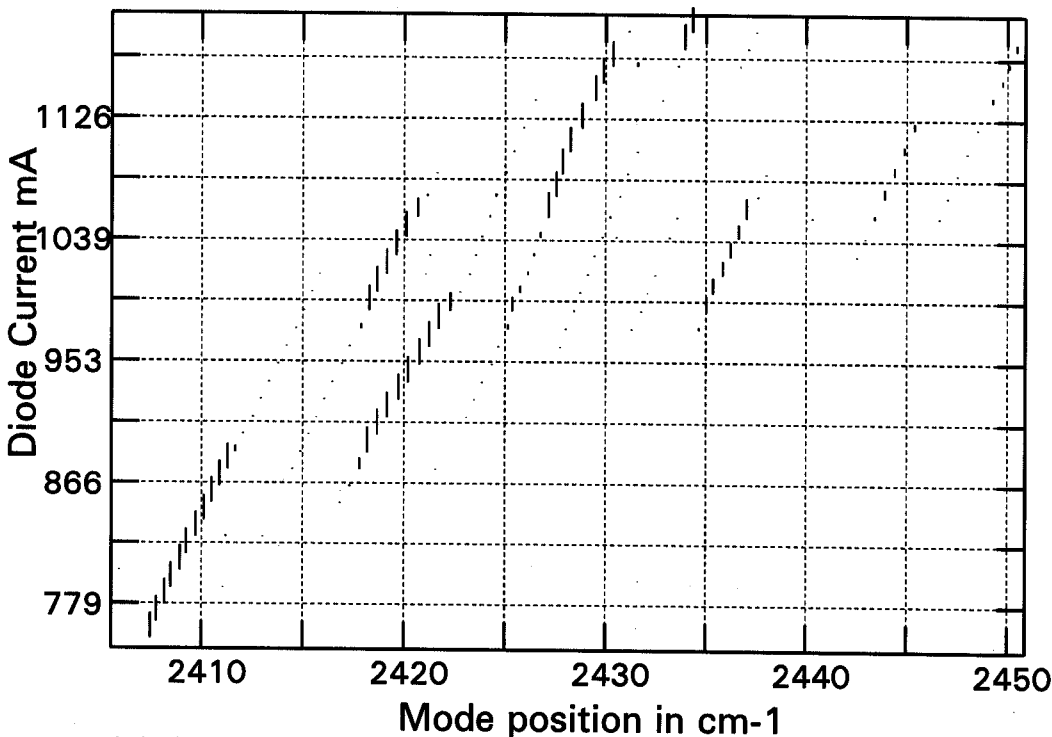
04/14/03

Operator:HUber

Laser: 392-HV-1-17

Temperature: 96.00 K

Modal Distribution



max modal Power %	total Power mWatt
82.65	- 0.5968
64.80	- 0.5872- L
73.16	- 0.5602- L
85.30	- 0.5707
83.88	- 0.5533
78.36	- 0.4944
77.00	- 0.4514
68.47	- 0.4586
63.91	- 0.4009
36.39	- 0.3875
56.47	- 0.3719- L
59.52	- 0.3637- L
58.00	- 0.3483- L
51.61	- 0.3251
33.71	- 0.3028
69.15	- 0.2810
96.00	- 0.2775
96.82	- 0.2688
97.16	- 0.2438
97.39	- 0.2462
96.81	- 0.2250
95.81	- 0.2229
80.25	- 0.2020
68.73	- 0.2099
97.11	- 0.1965
99.18	- 0.1820
100.00	- 0.1602
94.92	- 0.1475- L
100.00	- 0.1184
99.47	- 0.0888- L
98.39	- 0.0624- L
98.13	- 0.0331- L
100.00	- 0.0124
100.00	- 0.0017

04/14/03

Operator:HUber

Laser: 392-HV-1-17

Temperature: 99.00 K