

# LASER COMPONENTS GmbH

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**LASER  
COMPONENTS**



**Datasheet for Laser Components Leadchalkogenide - Diodelaser**

Order Number : .....  
 LC Order Number : .....  
 Part Number : 03-LI370HV-77  
 Customer Name : .....

Lasertype : IR-2755...  
 Wavenumber : 2755.....  
 Region : cm<sup>-1</sup>.....

Special Conditions : IR-2755-GMP.....  
 : .....

Polarity : +  
 Housing (groun) : -

Operator : Huber..... Max Operationtemp / K : 92.....  
 Serial Number : 370-HV-1-77..... Max Diode Current cw / mA : 1000...  
 Date : 14/May/2003

**Record of Laser No. 370-HV-1-77**

Date : 14/May/2003  
 Operator: Huber

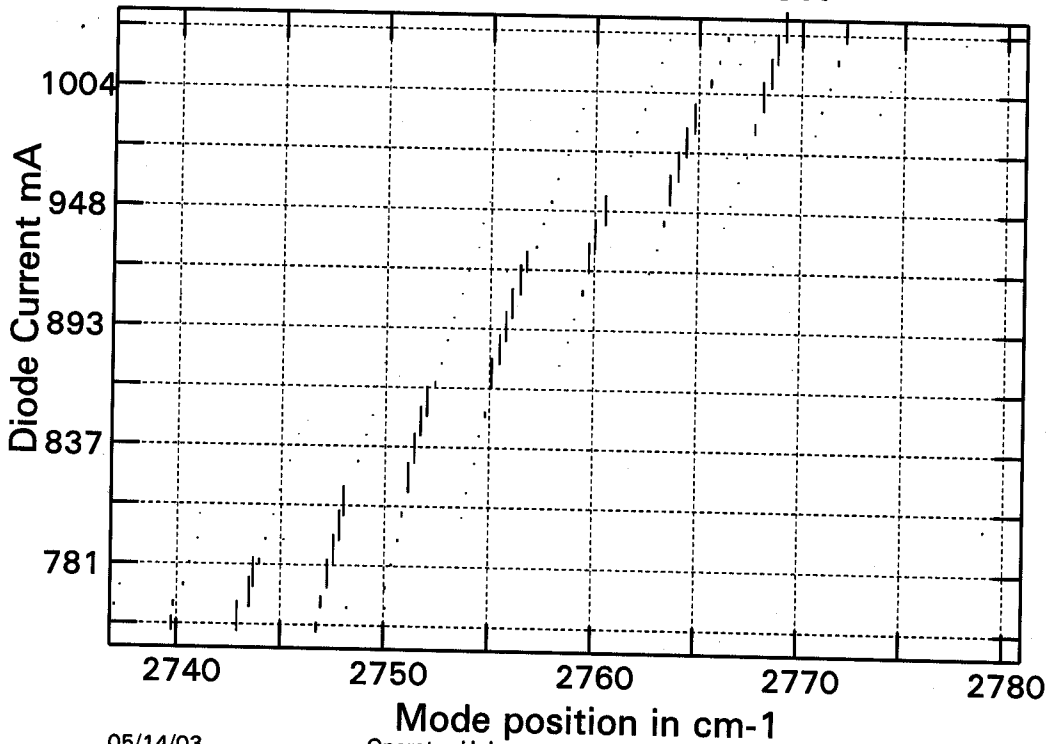
T / K	threshold current I <sub>th</sub> /mA	wavenumber at threshold cm <sup>-1</sup>	maximum current I <sub>m</sub> /mA	maximum total power P <sub>m</sub> /mWatt
85	755	2743	986	0.23
86	751	2743	969	0.23
87	751	2743	969	0.23

**Definition :**

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



# Modal Distribution



max modal Power %	total Power mWatt
53.19	0.2089-L
76.34	0.2116-L
74.09	0.2213
48.02	0.2228-L
70.99	0.2255-L
92.06	0.2046-L
83.53	0.2082-L
51.76	0.1968-L
80.92	0.2010
91.33	0.1881
56.43	0.1870-L
84.14	0.1779
96.84	0.1677
96.89	0.1540
95.55	0.1394
82.14	0.1258
84.04	0.1118
92.58	0.1036
90.90	0.0848
54.06	0.0693-L
82.08	0.0604-L
87.07	0.0462-L
79.57	0.0365
45.64	0.0254-L
56.54	0.0166-L
49.92	0.0063

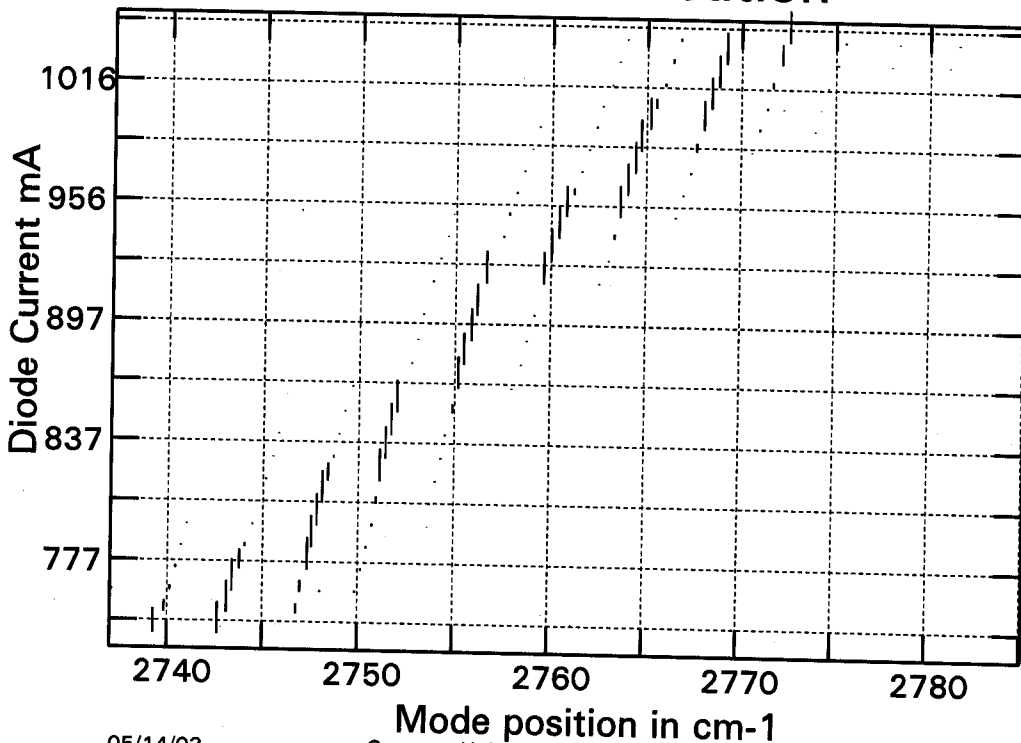
05/14/03

Operator:Huber

Laser: 370-HV-1-77

Temperature: 85.00 K

# Modal Distribution



max modal Power %	total Power mWatt
57.92	0.2252-L
54.99	0.2103-L
77.63	0.2113
72.91	0.2198-L
49.25	0.2175-L
75.60	0.2186-L
92.54	0.2185
81.05	0.2162
48.11	0.2048
84.54	0.1942
88.70	0.1925-L
48.92	0.1896-L
95.47	0.1727
97.08	0.1579
95.47	0.1468
72.91	0.1285-L
78.50	0.1222-L
93.39	0.1056
90.84	0.0917
63.34	0.0735
81.01	0.0605
88.10	0.0490-L
84.18	0.0393
57.93	0.0293
60.25	0.0183-L
56.79	0.0091
56.60	0.0034

05/14/03

Operator:Huber

Laser: 370-HV-1-77

Temperature: 86.00 K