

LASER COMPONENTS GmbH

Address

Werner-von-Siemens-Str. 15 P.O. Box 1129
 D-82140 Olching D-82133 Olching
 Phone ++49-8142-28640 · Fax ++49-8142-286411
 E-Mail: info@lasercomponents.com · Web: www.lasercomponents.com



Datasheet for Laser Components Leadchalkogenide - Diodelaser

Order Number :
 LC Order Number :
 Part Number : 03-LI393HV-27
 Customer Name :

Lasertype : IR-2640...
 Wavenumber : 2640,.....
 Region : cm⁻¹.....

Special Conditions : IR-2640-GMP-Premium.

Polarity : +
 Housing (groun) : -

Operator : Huber..... Max Operationtemp / K : 85.....
 Serial Number : 393-HV-1-27..... Max Diode Current cw / mA : 650.....
 Date : 23/Dec/2003

Record of Laser No. 393-HV-1-27

Date : 23/Dec/2003

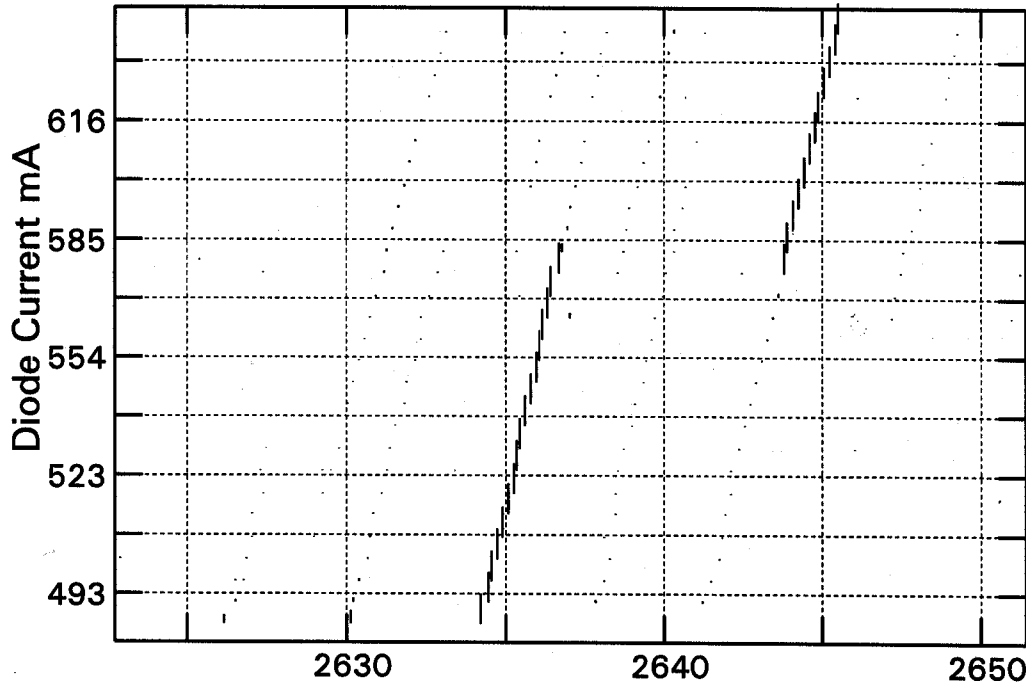
Operator: Huber

T / K	threshold current I _{th} /mA	wavenumber at threshold cm ⁻¹	maximum current I _m /mA	maximum total power P _m /mWatt
80	479	2634	640	0.73
81	486	2635	643	0.65
82	502	2636	643	0.72
83	508	2644	646	0.69

Definition :

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

Modal Distribution



max modal Power %	total Power mWatt	
87.38	0.6203	L
89.15	0.5733	
90.23	0.5402	
88.51	0.5356	L
90.22	0.5457	L
88.89	0.5007	L
89.69	0.5161	
88.55	0.4682	
86.88	0.4630	L
83.40	0.4102	L
72.93	0.3469	
46.99	0.3071	L
86.52	0.2941	L
82.03	0.2708	L
95.72	0.2554	
95.86	0.2511	
96.12	0.2180	
96.28	0.2003	
97.00	0.1930	
95.00	0.1602	L
94.36	0.1469	L
94.95	0.1295	L
94.31	0.1091	
93.17	0.0856	L
89.57	0.0746	L
86.33	0.0464	L
73.67	0.0310	L
51.02	0.0130	L

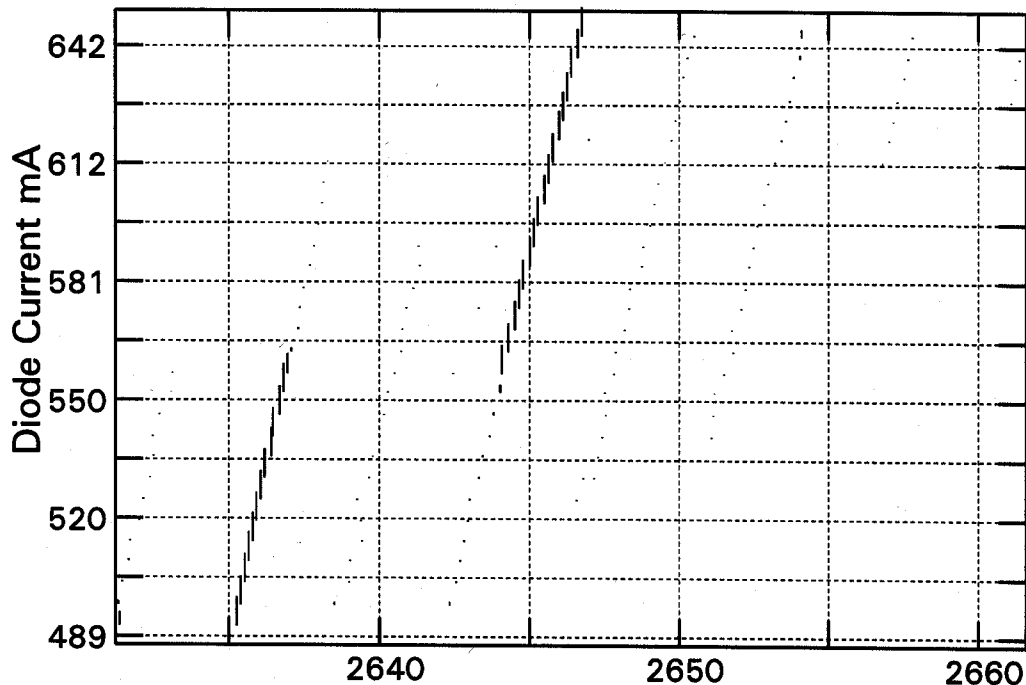
12/23/03

Operator:Huber

Laser: 393-HV-1-27

Temperature: 80.00 K

Modal Distribution



max modal Power %	total Power mWatt	
77.54	0.5835	
87.60	0.6047	
93.05	0.5379	
94.64	0.4459	
95.82	0.4793	
94.73	0.4708	L
96.35	0.4810	
97.11	0.4520	
97.30	0.4630	
97.49	0.4285	
95.90	0.4189	L
96.45	0.3791	
96.22	0.3515	
95.27	0.3449	L
94.10	0.3251	
87.60	0.3080	
57.91	0.2775	L
75.55	0.2528	L
88.08	0.2285	
92.55	0.2009	L
93.81	0.1803	
93.40	0.1745	L
93.68	0.1469	L
94.46	0.1234	
93.42	0.0952	L
91.45	0.0784	
89.31	0.0560	
75.85	0.0324	L
68.07	0.0155	L

12/23/03

Operator:Huber

Laser: 393-HV-1-27

Temperature: 81.00 K