

# LASER COMPONENTS GmbH

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### Datasheet for Laser Components Leadchalkogenide - Diodelaser

Order Number : .....  
LC Order Number : .....  
Part Number : 03-LI-L463-76.  
Customer Name : .....

Lasertype : IR-2160...  
Wavelength : 2160.....  
Region :  $\text{cm}^{-1}$ .....

Special Conditions : IR-2160-GMP-Premium.  
Plus.....  
.....

Polarity : +  
Housing (ground) : -

Operator : Huber..... Max Operationtemp / K : 55.....  
Serial Number : L-463-1-76..... Max Diode Current cw / mA : 320.....  
Date : 05/Jul/2002

### Record of Laser No. L-463-1-76

Date : 05/Jul/2002

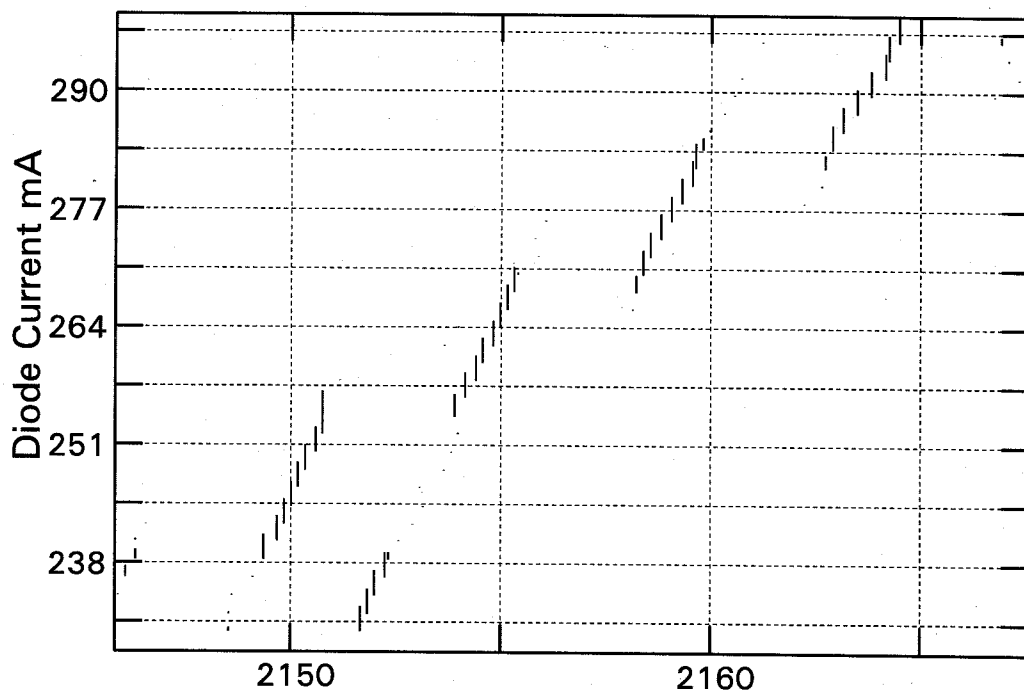
Operator: Huber

T / K	threshold current $I_{th}/\text{mA}$	wavelength at threshold $\text{cm}^{-1}$	maximum current $I_m/\text{mA}$	maximum total power $P_m/\text{mWatt}$
50	174	2141	288	1.69
51	188	2147	289	1.35
52	204	2154	285	1.00
53	229	2171	287	0.59

### Definition :

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

## Modal Distribution



max modal Power %	total Power mWatt	
51.25	1.7034	L
95.18	1.5771	L
98.29	1.6889	
98.40	1.6192	L
99.00	1.5452	
93.88	1.4563	
67.62	1.5124	L
64.52	1.4044	
98.28	1.4659	
99.23	1.3516	L
99.29	1.4427	L
99.23	1.3606	L
98.84	1.2453	L
92.69	1.2526	
59.53	1.2752	
98.07	1.1414	L
95.90	1.0874	L
97.24	1.0764	L
100.00	1.0807	
99.09	1.0891	
91.93	0.9826	
52.85	1.0096	
96.77	0.9626	
98.97	0.9588	L
99.08	0.8404	L
99.16	0.8755	L
99.12	0.7867	
97.87	0.7483	L
93.77	0.7338	L
60.91	0.6894	
68.21	0.6981	
95.64	0.6491	L
94.00	0.5942	L
89.02	0.5887	

07/05/02

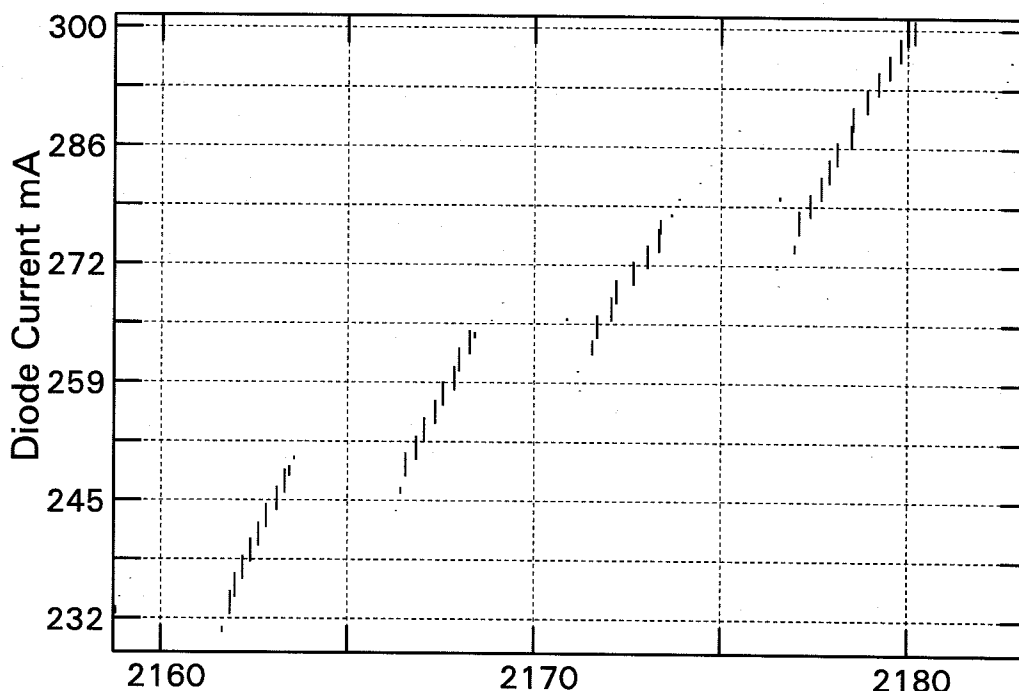
Mode position in cm-1

Operator:Huber

Laser: L-463-1-76

Temperature: 50.00 K

## Modal Distribution



max modal Power %	total Power mWatt	
75.70	-0.0005	
96.91	1.1437	
98.76	0.9382	
98.95	0.9931	L
100.00	0.9878	
99.25	0.9658	L
99.20	0.9510	L
98.96	0.8468	
98.56	0.8433	
83.11	0.8247	L
89.95	0.8973	
62.52	0.8610	
75.08	0.7492	
96.49	0.8206	
99.25	0.7838	
99.12	0.7829	
88.86	0.7092	L
80.93	0.6868	
62.68	0.7071	
96.73	0.7068	
99.17	0.6671	L
100.00	0.6264	
100.00	0.6366	
98.99	0.6203	
89.59	0.5928	
70.51	0.5814	
79.47	0.5518	
98.84	0.5138	
100.00	0.5010	
100.00	0.4766	
100.00	0.4157	
99.25	0.4171	L
98.46	0.3913	
74.97	0.3643	
80.28	0.3242	

07/05/02

Mode position in cm-1

Operator:Huber

Laser: L-463-1-76

Temperature: 52.00 K