

808-M-XX-1W-100

XX = configuration



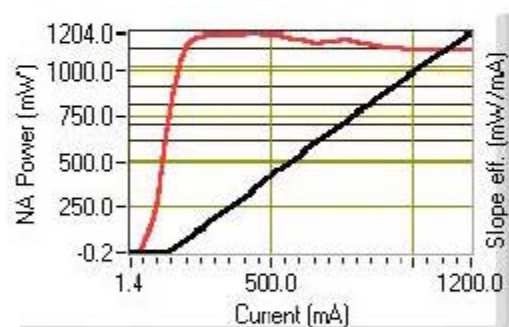
808nm, high brightness, high reliability, multi mode laser diodes with 1W out put from 100 μ m aperture. Standard configurations include: C-Mount, Q-Mount, Sub-Mount, and 9mm. Other packages options including fiber coupled, are available.



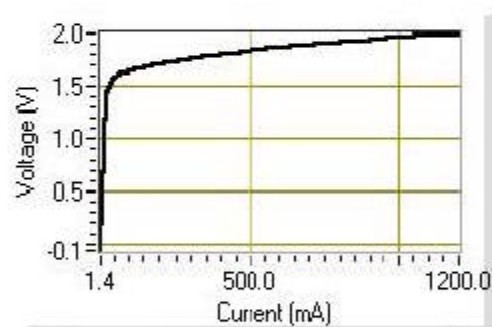
Application:

Pumps source, medical, commercial printing, free space communication, material processing, military, homeland security and banking authentication.

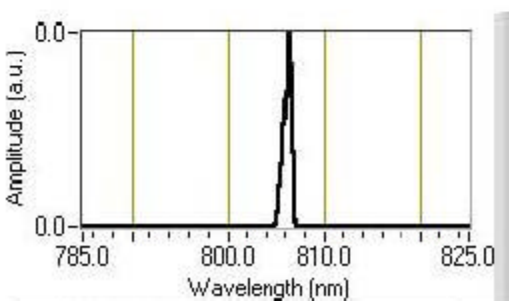
Parameter	Unit	Minimum	Typical	Maximum	Condition
Aperture	μ m		100		
Cavity Length	μ m	1000	1000	1500	
Wavelength	nm	803	808	813	at 25 °C, P _o
Spectrum FWHM	nm		2	4	at 25 °C, P _o
Operating Power (P _o)	mW		1000	1000	at 25 °C
Operating Current (I _o)	mA		1000	1400	at 25 °C, P _o
Operating Voltage (V _o)	V		1.9	2.2	at 25 °C
Lifetime	hour	10,000			at 25 °C
Vertical Far Field	deg, FWHM		32	38	at 25 °C, P _o
Parallel Far Field	deg, FWHM		8	11	at 25 °C, P _o
Threshold (I _{th})	mA		200	400	at 25 °C
Slope Efficiency (dP/dI)	W/A	1	1.2		at 25 °C
Maximum Operating Current	mA			defined by I _o	at 1000 mW
Storage Temperature	°C	-40		80	
Operating Temperature (T _{op})	°C	-20	25	30	
Lead Soldering Temperature	°C			250	< 5 second



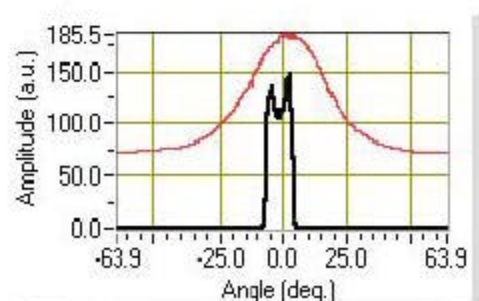
CW LI, dL/dI curve



CW V-I curve



CW spectrum at 1000mW



CW far field at 1200mA