

808-S-XX-150mW

XX = configuration



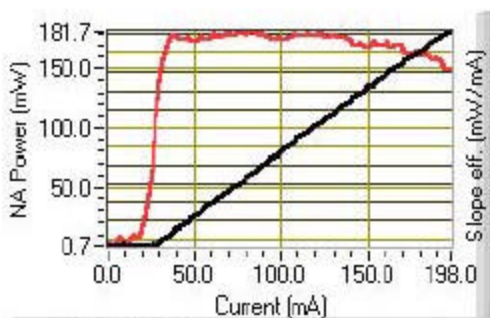
808nm, high brightness, high reliability, single mode laser diodes with 150 mW out put from 5 μm aperture. Standard configurations include: C-Mount, Q-Mount, Sub-Mount, and 9mm. Other packages options including fiber coupled, are available.



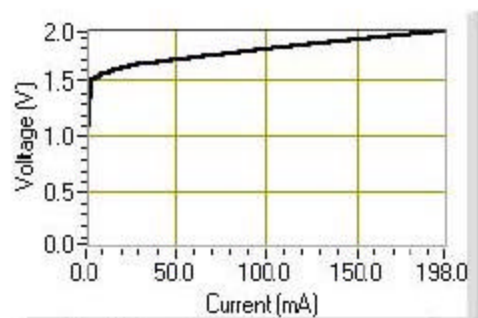
Application:

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

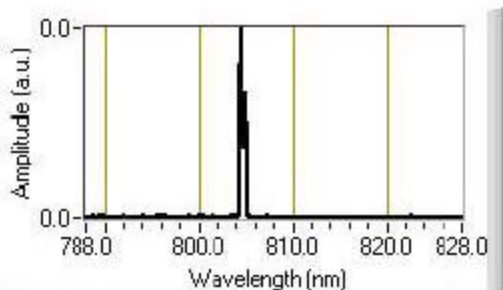
Parameter	Unit	Minimum	Typical	Maximum	Condition
Aperture	μm		5		
Cavity Length	μm	1500	1500	1500	
Wavelength	nm	804	808	811	at 25 °C, P_o
Spectrum FWHM	nm		0.5	2	at 25 °C, P_o
Operating Power (P_o)	mW		150	150	at 25 °C
Operating Current (I_o)	mA		160	200	at 25 °C, P_o
Operating Voltage (V_o)	V		1.9	2.2	at 25 °C
Lifetime	hour	10,000			at 25 °C
Vertical Far Field	deg, FWHM		17	22	at 25 °C, P_o
Parallel Far Field	deg, FWHM		8	11	at 25 °C, P_o
Threshold (I_{th})	mA		30	50	at 25 °C
Slope Efficiency (dP/dI)	W/A	0.9	1		at 25 °C
Maximum Operating Current	mA			defined by I_o	at 150 mW
Storage Temperature	°C	-40		80	
Operating Temperature (T_{op})	°C	-20	25	30	
Lead Soldering Temperature	°C			250	< 5 second



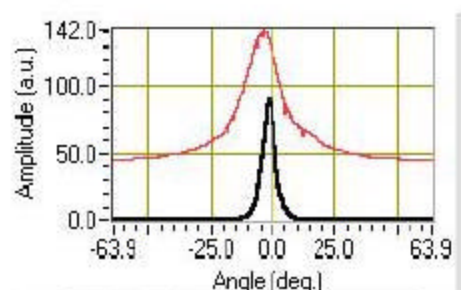
CW L-I, dL/dI curve



CW V-I curve



CW spectrum at 150mW



CW far field at 200mA