

# 980-M-XX-2W-100

XX = configuration



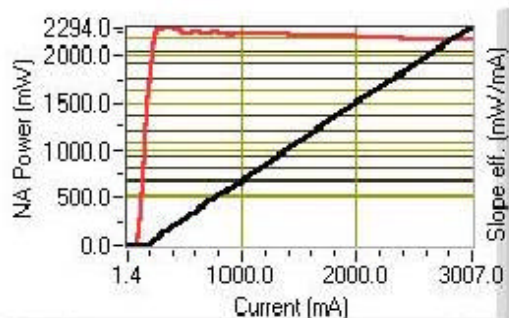
980nm, high brightness, high reliability, multi mode laser diodes with 2W out put from 100  $\mu\text{m}$  aperture. Standard configurations include: C-Mount, Q-Mount, Sub-Mount, and 9mm. Other packages options including fiber coupled are available.



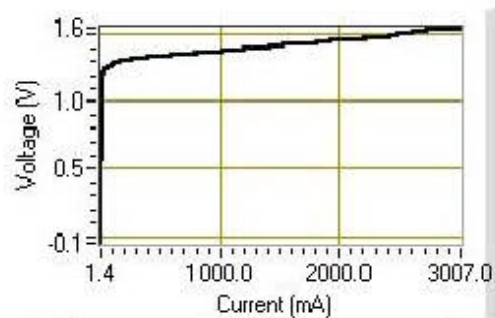
## Application:

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

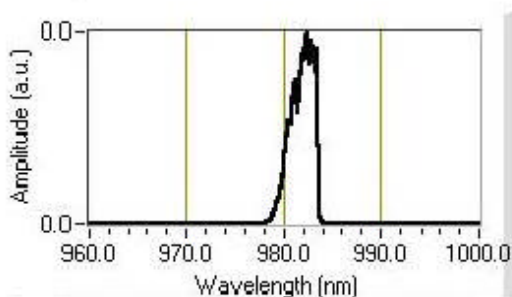
Parameter	Unit	Minimum	Typical	Maximum	Condition
Aperture	$\mu\text{m}$		100		
Cavity Length	$\mu\text{m}$	1500	2000	2000	
Wavelength	nm	975	980	985	at 25 °C, $P_o$
Spectrum FWHM	nm		2	4	at 25 °C, $P_o$
Operating Power ( $P_o$ )	mW		2000	2000	at 25 °C
Operating Current ( $I_o$ )	mA		2500	2900	at 25 °C, $P_o$
Operating Voltage ( $V_o$ )	V		1.7	2	at 25 °C
Lifetime	hour	10,000			at 25 °C
Vertical Far Field	deg, FWHM		30	35	at 25 °C, $P_o$
Parallel Far Field	deg, FWHM		8	11	at 25 °C, $P_o$
Threshold ( $I_{th}$ )	mA		250	550	at 25 °C
Slope Efficiency (dP/dI)	W/A	0.8	0.9		at 25 °C
Maximum Operating Current	mA			defined by $I_o$	at 2000 mW
Storage Temperature	°C	-40		80	
Operating Temperature ( $T_{op}$ )	°C	-20	25	30	
Lead Soldering Temperature	°C			250	< 5 second



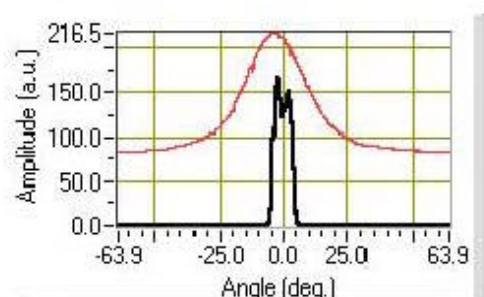
CW L-I, dL/dI curve



CW V-I curve



CW spectrum at 2000mW



CW far field at 3000mA

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