

# 915-M-XX-4W-100

XX = configuration



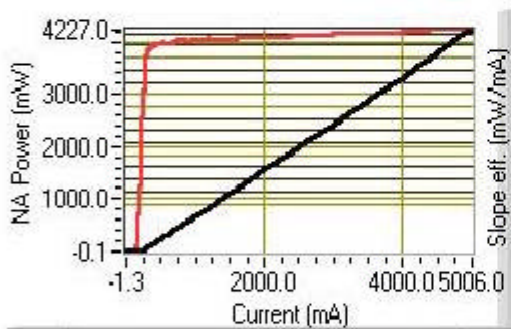
915nm, high brightness, high reliability, multi mode laser diodes with 4W out put from 100 μm aperture. Standard configurations include: C-Mount, Q-Mount, Sub-Mount, and 9mm. Other packages options including fiber coupling, are available.



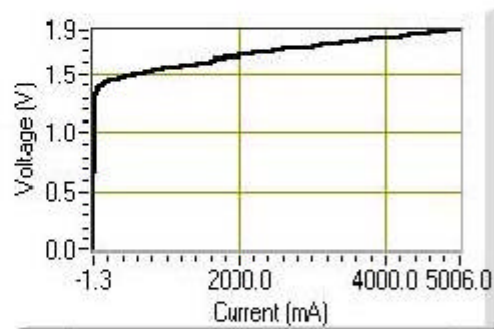
## Application:

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

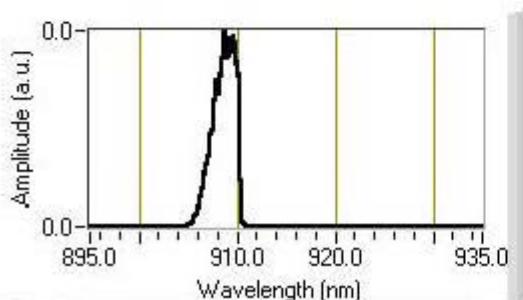
Parameter	Unit	Minimum	Typical	Maximum	Condition
Aperture	μm		100		
Cavity Length	μm	2000	2000	2000	
Wavelength	nm	900	910	920	at 25 °C, P <sub>o</sub>
Spectrum FWHM	nm		3	5	at 25 °C, P <sub>o</sub>
Operating Power (P <sub>o</sub> )	mW		4000	4000	at 25 °C
Operating Current (I <sub>o</sub> )	mA		4700	5100	at 25 °C, P <sub>o</sub>
Operating Voltage (V <sub>o</sub> )	V		1.9	2.2	at 25 °C
Lifetime	hour	10,000			at 25 °C
Vertical Far Field	deg, FWHM		35	40	at 25 °C, P <sub>o</sub>
Parallel Far Field	deg, FWHM		9	12	at 25 °C, P <sub>o</sub>
Threshold (I <sub>th</sub> )	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 <sub>o</sub>	at 4000 mW
Storage Temperature	°C	-40		80	
Operating Temperature (T <sub>op</sub> )	°C	-20	25	30	
Lead Soldering Temperature	°C			250	< 5 second



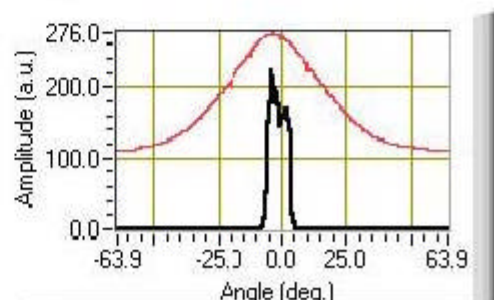
CW L-I, dL/dI curve



CW V-I curve



CW spectrum at 4000mW



CW far field at 5000mA