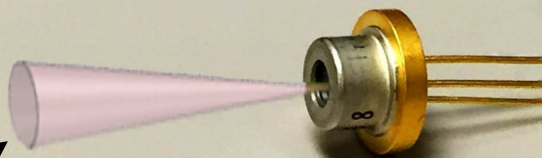


CVLL 350-CL90

1550nm Pulsed Laser Diode with Integrated Micro Lens

The 1550nm pulsed laser offers a far field beam pattern with equivalent divergence values for both the Fast (Perpendicular) and the Slow (Parallel) Axes of emission. The adjusted Far Field pattern offers higher coupling efficiency into standard spherical lens systems. The laser/lens is hermetically sealed in a 9mm package that offers robust environmental survival capability for demanding applications such as field deployed range finders. This product is RoHS compliant.

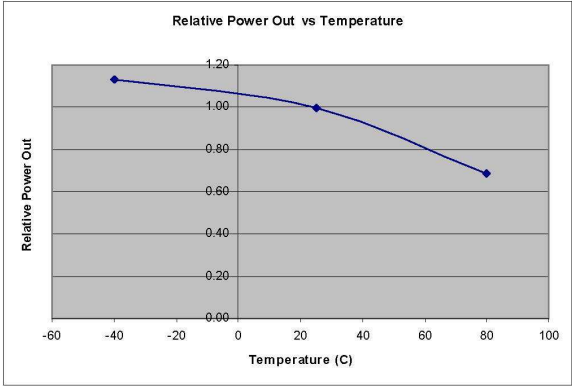


Beam Divergence Equivalent in both Axis

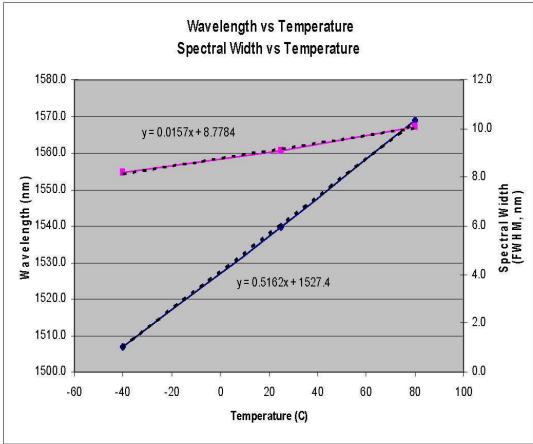
Parameters	Symbol	Min.	Typ.	Max.	Units
Wavelength	λ	1530	1550	1580	nm
Spectral Width FWHM	$\Delta\lambda$		15		nm
Temp Coeff. of Wavelength	$\Delta\lambda / \Delta T$		0.55		nm
Peak Power	P_o		22		W
Pulse Width	PW		150		nS
Duty Factor	DF		0.1		%
Drive Current	-		75		A
Beam Divergence (FWHM)	-		8 x 8		Deg.
Storage Temperature	T_s	-40		90	°C
Operating Temperature	T_o		25		°C

Product Performance: Temperature 25°C, Pulse Width 150nS, Frequency 5kHz

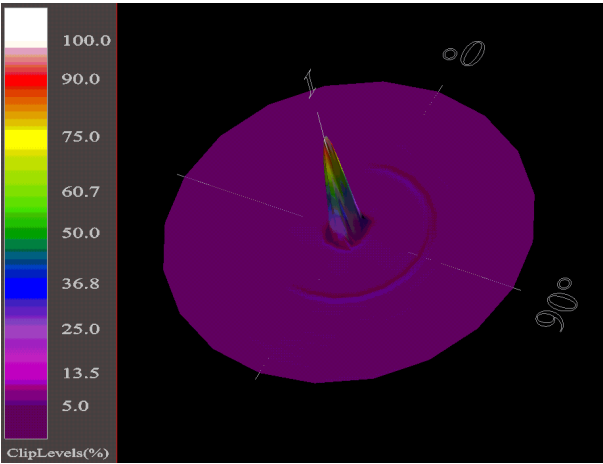
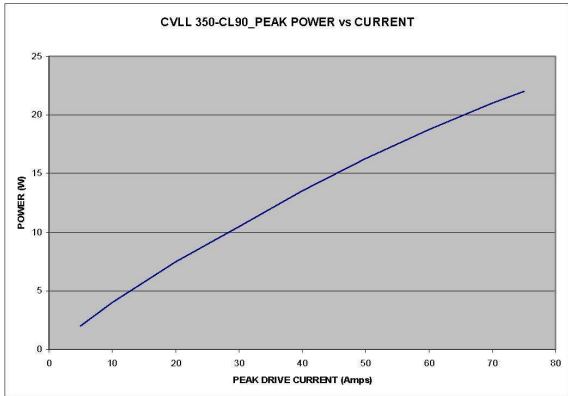
Relative Peak Power Out: 150nS Pulse Width, 5kHz Repetition Rate (25°C)



Wavelength and Spectral Width: 150nS Pulse Width, 5kHz Repetition Rate (25°C)



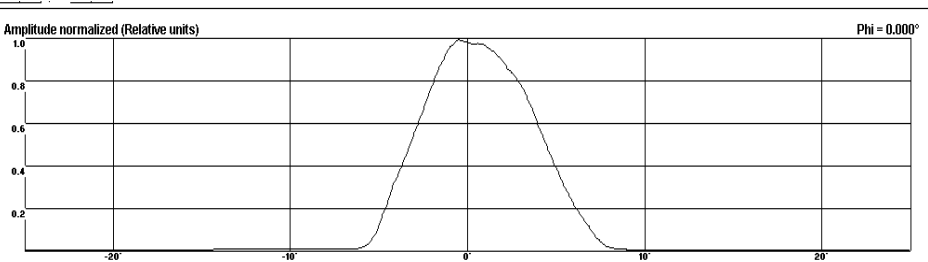
Peak Power vs Peak Drive Current: 150nS Pulse Width, 5kHz Repetition Rate (25°C)



Typical 3D Beam Divergence

Typical Far Field Divergence Profile

Perpendicular Divergence (Fast Axis)



Parallel Divergence (Slow Axis)

