

Lasertel manufactures customized, state-of-the-art laser diode array packages that set industry standards for performance, quality and reliability.

Lasertel's LT-6500 stack array packages are engineered and manufactured to perform reliably and efficiently in the most demanding environments.

Due to our exclusive ability to offer a broad range of optical output powers, alternate peak wavelengths and operating temperatures, engineers from a variety of industries rely on Lasertel to meet their custom specifications.

LASERTEL DELIVERS....

- ***Robust construction consisting of expansion matched materials and hard solder***
- ***Patented design and assembly technology***
- ***Custom packaging and standard configurations***
- ***ISO 9001:2000, ISO 13485:2003***

TYPICAL PERFORMANCE SPECIFICATIONS (Top = 25°C)		10 BAR
Peak Output Power	W	600
Peak Wavelength	nm	770-870
Spectral Width (FWHM) ¹	nm	3.0
Number of Bars	–	10
Pitch Between Bars (min)	mm	1.1 to 1.7
Bar Width ³	mm	10
Operating Current	A	70
Conversion Efficiency	%	55
Fast Axis Divergence (FWHM)	°	36
Slow Axis Divergence (FWHM)	°	10

TYPICAL PERFORMANCE SPECIFICATIONS (Top = 25°C)		60 BAR
Peak Output Power	W	3600
Peak Wavelength	nm	770-870
Spectral Width (FWHM) ¹	nm	4.0
Number of Bars	–	60
Pitch Between Bars (min)	mm	1.1 to 1.7
Bar Width ³	mm	10
Operating Current	A	70
Conversion Efficiency	%	55
Beam Divergence (FWHM)	°	36
Fast Axis Divergence (FWHM)	°	36
Slow Axis Divergence (FWHM)	°	10

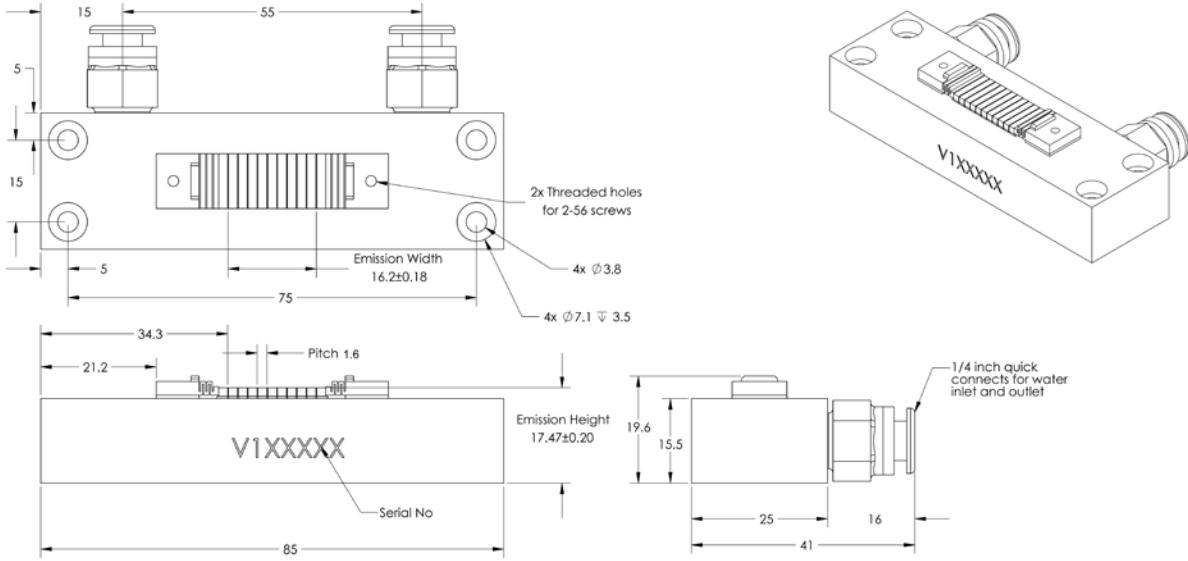
ABSOLUTE MAXIMUM RATINGS		
Reverse Voltage	V	2.0
Operation Temperature ²	°C	-20 to +70
Storage Temperature	°C	-40 to +85

CW Stack Arrays

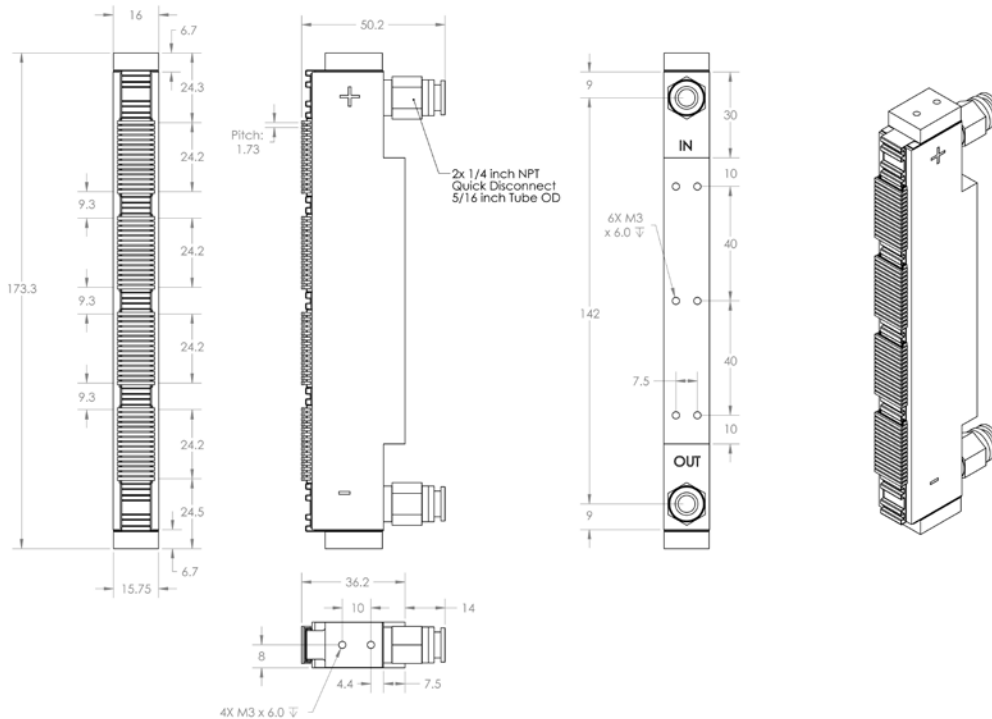
- ***Designed to eliminate common failure mechanisms associated with competing CW stack array technology***
 - *Monolithic design with no o-rings or rubber gaskets to eliminate failure due to water leaks.*
 - *Environmentally robust – expansion-matched hard solder assembly to allow for stable performance over large temperature ranges and extreme shock and vibration.*
 - *Compatible with industrial water*
 - *Compatible with relaxed filtration requirements*
- ***Flexible footprint***
- ***Compatible with environmentally demanding applications***
- ***Bar to bar pitch as low as 1.1mm for increased brightness.***
- ***Enhanced heat removal capability resulting in a thermal resistance of <0.1°C/W***
- ***Lensed and wavelength stabilized configurations available***
 - *4mrad FFFA beam divergence*
 - *8mrad beam to beam parallelism*
 - *±0.5nm peak wavelength tolerance, 0.3nm spectral width*

¹ Applies to single color stacks, multiple color stacks also available, consult Lasertel for details. ² Non-condensing, not to exceed rated power or maximum current. ³ Custom bar widths available.

LT-6500 10 BAR		WAVELENGTH (nm) 770-890
	POWER (W) UP TO 600	



LT-6500 60 BAR		WAVELENGTH (nm) 770-890
	POWER (W) UP TO 3600	



Dimensions in mm (inches)