

# intense

## next generation lasers

**New 300mw  
Product Offering**

### QWI-ENABLED, SINGLE MODE COMPONENTS

# Series 6100

## 980nm High Brightness Lasers for Defense, Medical, Print and Imaging Applications



The series 6100 are very high brightness, single mode lasers with up to 200mW of kink-free power. Manufactured using Intense's patented Quantum Well Intermixing (QWI) technology, the Intense Series 6000 are among the most reliable high power, single mode lasers in the industry, with more than 11 million hours of device operation at 25°C.

are optional for both the 5.6 mm and 9mm packages. Custom wavelengths are available on request. Power levels under 100mW are also available.

Applications include a variety of print and imaging, point-to-point communications, medical imaging, optical storage, sense and detection, aerospace and defense.

The lasers are available in a wide selection of industry standard packages. Photodiode monitors

### Typical Specifications @ 25°C

Series 6100		6105	6110	6120	6130
Output Power	(mW)	50	100	200	300
Source Size	( $\mu\text{m}$ )	3	3	3	3
Operating Current	(mA)	80	140	250	360
Threshold Current	(mA)	20	20	30	30
Wavelength		980nm $\pm$ 5nm, 980nm $\pm$ 10nm			
Other Wavelengths		886-1000 nm available on request			
Spectral Width		2nm			
Slope Efficiency		0.95 W/A			
Beam Divergence		5 x 25 deg (FWHM)*			
Typical Packages		5.6mm**, 9mm, C-mount, PDM optional			

\* Other far field available on request

\*\* 5.6mm package up to 200mw

### Safety

Intense Indium Gallium Arsenide lasers emit infrared radiation. This radiation is invisible to the human eye and safety precautions must be taken to prevent potential eye damage. Do not view or stare at operating lasers. If viewing is required, use a matte surface or suitable viewing screen.

### Disclaimer

Intense reserves the right to make changes at any time as necessary to improve the design and to supply the best product. The information provided is believed to be accurate at the time of printing. No responsibility is assumed for its use or on the infringements on the rights of others.

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6100D

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