

intense

next generation lasers

**New 300mw
Product Offering for
Spectroscopy and
Life Science Applications**

SINGLE MODE COMPONENTS

Series 6000 - 78X

830nm High Brightness Lasers for Defense, Medical, Print and Imaging Applications



The series 6000 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.

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

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.

Typical Specifications @ 25°C

Series 6000		6010	6015	6020	6030
Output Power	(mW)	100	150	200	300
Source Size	(µm)	3	3	3	3
Operating Current	(mA)	150	200	250	350
Threshold Current	(mA)	50	50	50	60
Wavelength	780nm ±5nm, 785nm ±15nm				
Other Wavelengths	8XXnm				
Spectral Width	2nm				
Slope Efficiency	1 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.

© Intense Ltd. All rights reserved worldwide.

1200A Airport Road
North Brunswick, NJ 08902
USA

Tel: +1 732 249 2228
Fax: +1 732 249 8139

E-mail: sales@intenseco.com
Web: www.intenseco.com



6000D-78X