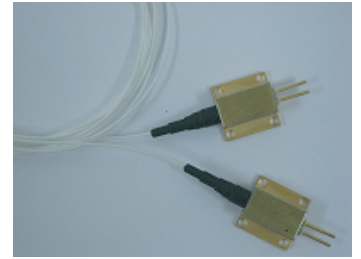


INFRA-RED COMPONENTS

Series 8000 793-MFP

793 nm Fiber Coupled Laser Diodes for Thulium Fiber Pumping

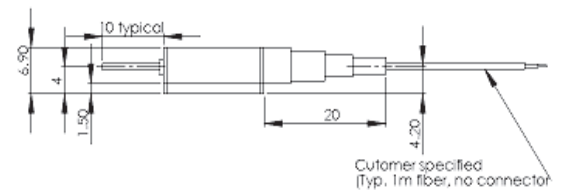
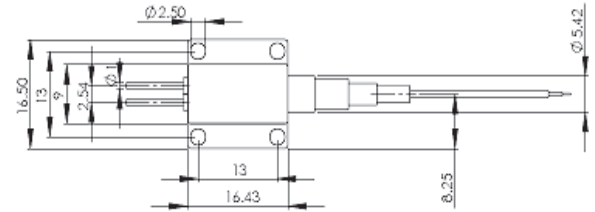


The Intense Series 8000 devices are 793nm multimode, single emitter, fiber coupled pump sources designed to meet the growing demands of the fiber laser industry. The series 8000 are ideally suited for use in next generation "eye safe" fiber lasers across a variety of defense, industrial and medical applications.

The series 8000 devices are manufactured using Intense's patented Quantum Well Intermixing (QWI) Technology.

This increases the brightness and reliability of the lasers while avoiding the problems associated with catastrophic optical mirror damage (COMD).

The combination of Intense's patented QWI technology and innovative, robust packaging provides users with the highest levels of power and reliability. Custom packaging options are available to meet your system requirements.



Typical Specifications @ 20°C

Fiber Coupled High Power		Typical Values
Output Power, ex -fiber	W	4.5
Operating Current	A	5.5
Wavelength		793nm ± 5nm
Case Temperature	top	20 °C
Typical Parameters		
Operating Voltage	Vmax	2.0V
Spectral Width		4nm
Threshold Current	Ith	1 A
Series Resistance	Rs	70 mΩ
Fiber Core Size		105 μm
Fiber NA		0.22 / 0.15

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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