

## Product Brief

### APPLICATIONS

- Free Space Optical (FSO) Communications
- Infrared Illumination
- Infrared Pointing
- Laser Rangefinding
- LADAR
- Fiber Optic Testing
- Medical

### FEATURES

- Watt-class output power
- High Efficiency
- Submount or packaged

### OVERVIEW

The FP3915 15xx nm High Power Diode Laser is a high power (Watt-class), high efficiency device operating at “eye-safe” wavelengths. The laser is fabricated in two versions, single spatial mode and multi-spatial mode. The laser can be supplied in a C-mount carrier, as indicated in the picture below, which is useful for testing and prototyping; however, the heat extraction from such a carrier is not ideal. Please contact us for custom packaging options for your application.

### SPECIFICATIONS

Parameter	min	Typ	max	unit
Operating Power - Single spatial mode version		0.5		W
Operating Power - Multi-spatial mode version		3.0		W
Center Wavelength	1525	1550	1575	nm
Spectral Width (FWHM)		< 1		nm
Peak EO Efficiency - Single spatial mode version	15	20		%
Peak EO Efficiency - Multi-spatial mode version	30	36		%
Package Operating Temp	0	25	50	°C
Specifications at 25°C				

