

Fiberdrive635™

**635 nm Laser Module
25mW, 10mW & 5mW
With
Integrated Drive Electronics**



Performance

The Blue Sky Research **Fiberdrive635™** laser module features a high output power, fiber pigtailed 635nm laser diode (658nm laser diodes are also available), and integrated drive electronics in a compact, easy to use package. Standard features include Automatic Power Control (APC) or Automatic Current Control (ACC) electronics, 1-m single mode fiber pigtail, and 5V dc operation. Power outputs to 25mW are available.

The small foot print **Fiberdrive635™** package measures 2.8"x0.94"x0.6" (71mmx24mmx15mm), and incorporates a 1-meter, single mode fiber pigtail for OEM, remote sourcing, and measurement or instrumentation applications.

The **Fiberdrive635™** module requires 5Vdc for operation, and includes monitoring, control, and protection circuits. Users can easily configure the **Fiberdrive635™** to ACC or APC modes of operation via a simple jumper connection, and vary the output power via a trimpot.

Available options include: 1mW, 5mW, 10mW, or 25mW power outputs, 658nm diode, FC and SC connectors, collimators, and pins for PCB mounting. Custom configurations available.

Features

- * Selectable ACC/APC operation
- * Integrated drive electronics
- * Simple 5Vdc operation
- * to 25mW of 635nm Pout
- * Small package footprint & height
- * 1-m single mode fiber pigtail

Applications

- * Spectroscopy
- * Fluorescence
- * Laser Disc/CD/DVD mastering
- * Biomedical & Medical
- * Printing
- * Optical Storage



Fiberdrive635™

Optical Specifications (T_A=25°C)

Wavelength	635nm +5/-10nm
Power Out	25, 10, 5 mW
Spectral Linewidth	< 0.5nm
Polarization	20 dB*
Noise (DC to 20MHz)	<0.3% RMS
Power Stability	0.5% @ 1hr 1% @ 24hrs
Fiber Type	SM, 125µm clad
Fiber NA	0.13
Mode Field Dia.	4.5 µm +/- 0.5
Circularity	0.97
M2 Value	1.1
Fiber Connector	FC/PC (SC optional)

* For polarization maintaining fiber only.

Electrical Specifications

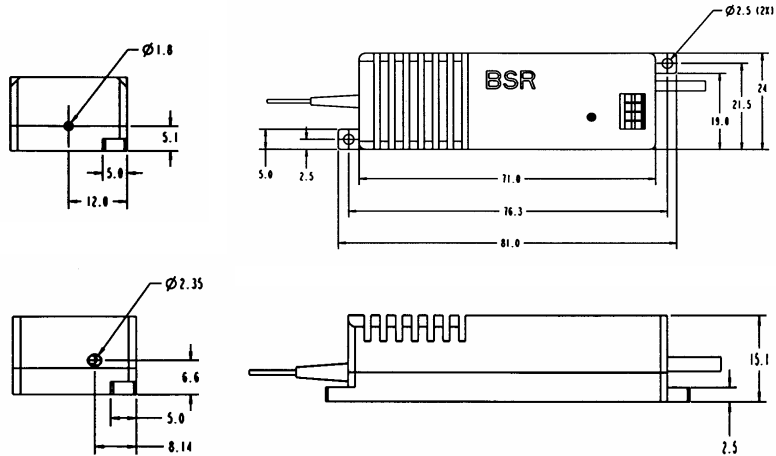
Input: 5Vdc +/- 5%

Environmental Specifications

Cooling	Convection / Heatsink**
Operating Temp.	0 – 40 °C
Storage Temp.	0 to 70 °C

** Varies by model.

Mechanical Layout



ORDERING INFORMATION

FDRV - □□□□ - □□□ - □ - □□

Product Family _____

Wavelength, (nm) _____
0635, 0658

PinOut Configuration _____
0 = no pins on bottom, P = PCB pins

Power Output (mW) _____
05, 10, 15, 20, 25

Fiber Type _____
S = single mode
P = polarization maintaining

Fiber Connector _____
FC/PC = F FC/APC = A SC/PC = S SC/APC = G

Collimator _____
None = 0, 1mm = M, 1.5mm = N, 2.5mm = P, 4.0mm = Q

Example: FDRV-0635-P25-S-F0, FiberDrive635™ laser module with 635nm

Laser diode, PCB pins on bottom of package, 25mW power output, single mode fiber, FC/PC fiber connector, and no collimated beam output optics

This component does not comply with the Federal Regulations (21 CFR Subchapter 1) as administered by the Center for Devices and Radiological health. Purchaser acknowledges that his/her products must comply with these regulations before they can be sold to a customer.

Blue Sky Research follows a policy of continuous improvement. Specifications are subject to change without notice. DS-01.03

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