

Triplex - RGB Fiber-Coupled White Laser Diode Module



Features

- Triplex RGB-Laser Module
- Up to 15mW Per Color Channel
- Independent Control of Each Color Channel
- 3 μ m Single Mode Fiber, NA 0.12
- FC/APC Fiber Connector

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Triplex-RGB-Module Overview

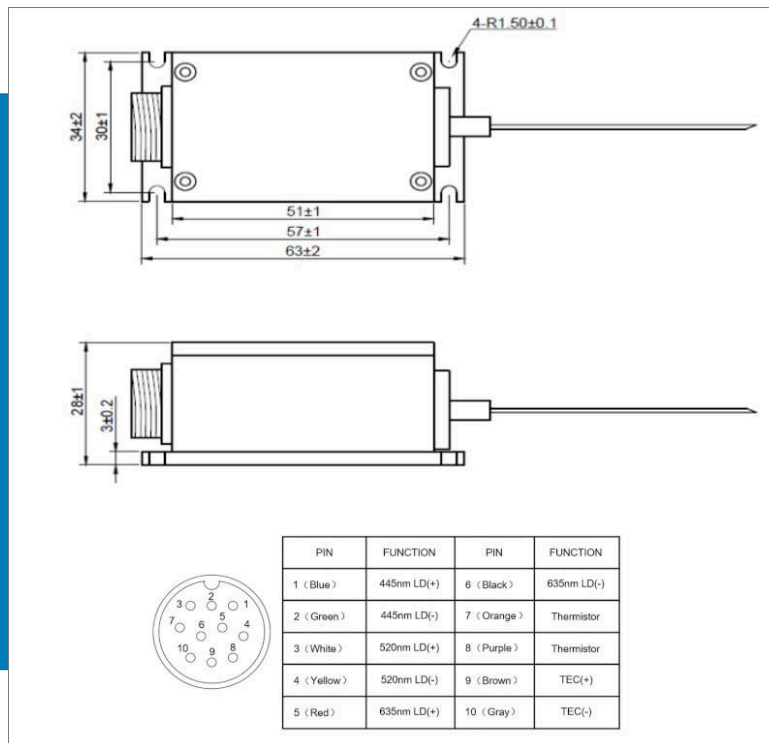
The Triplex-RGB Fiber Coupled White Laser Modules combine three lasers - Red (638nm), Green (520nm), and Blue (450nm) - into one fiber to get the perfect white Laser output. By controlling the power ratio of the RGB Laser wavelengths, the perfect white laser output can be achieved. Likewise, any other color can be achieved by controlling the power ratios.

The three internal laser diodes are coupled to a single-mode fiber, 3 μ m core, with NA of 0.12. The module is equipped with an internal thermoelectric cooler and thermistor, and is designed for good heat conduction so that stable laser temperature can be maintained during high-power operation.

Proven Laser Diode Expertise

These high stability fiber coupled laser diodes are designed and manufactured to meet the most demanding R&D and industrial applications.

Proprietary design, packaging, and fiber coupling processes produce laser diodes with very high stability and low noise. Each laser diode is subject to extensive testing and burn-in before shipment to ensure the highest possible levels of quality and long term reliability.





OPTICAL SPECIFICATIONS AT 25°C

- Triplex RGB Optical Source
- Output Power: up to 15 mW per Wavelength
- Wavelength Temperature Coefficient: 0.05 nm/°C

ELECTRICAL SPECIFICATIONS AT 25°C

- Threshold / Operating Current (450 nm): 30 mA / 120 mA
- Operating Voltage (450 nm): 6.0 V
- Threshold / Operating Current (520 nm): 45 mA / 200 mA
- Operating Voltage (520 nm): 7.0 V
- Threshold / Operating Current (638 nm): 50 mA / 180 mA
- Operating Voltage (638 nm): 2.7 V

PACKAGE AND FIBER SPECIFICATIONS

- Compact Module
- Fiber Connector: FC/APC
- Fiber Core Diameter: 3 μ m
- Fiber NA: 0.12
- TEC Current: 3.5 A (max)
- TEC Voltage: 7.0 V (max)

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