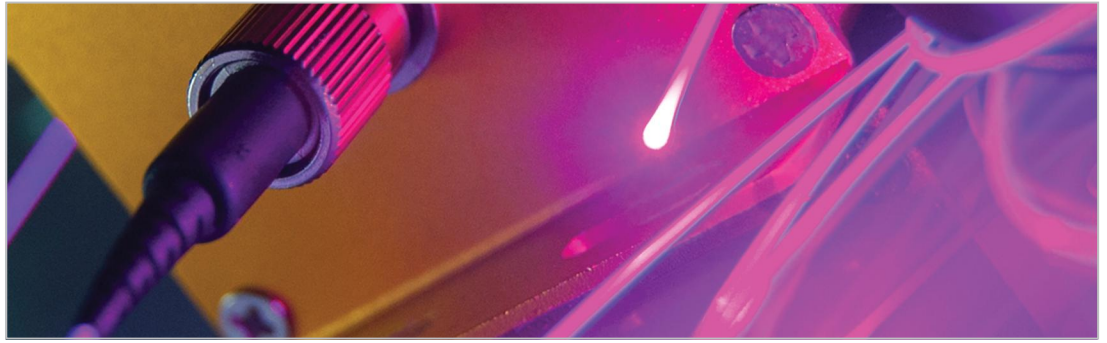


CORNING

Fibrance™
Light-Diffusing Fiber



Corning® Fibrance™ Light-Diffusing Fiber Multi-Color Laser Modules (RGB60FC)

Specification Sheet

Corning® Fibrance™ Multi-Color Laser Modules are laser sources designed and optimized to unleash the brilliant multi-color possibilities of Corning® Fibrance™ Light-Diffusing Fiber. Each module has a Fiber Optic connector receptacle for attaching connectorized Fibrance™ Light-Diffusing Fiber. A remote control interface is provided to enable dynamic color and power control. The module is powered by a 12 V DC power adapter or user supplied 12 V DC power supply.

Product Attributes:

■ Color	Multi-color
■ Beam	Without collimation
■ Optical Power	60 mW
■ Classification	Class IIIa (IEC Class 3R) Laser

Optical and Electrical:

Product Offering	RGB60FC
Nominal Wavelength	450 nm, 520 nm, 630 nm
Maximum Optical Power Output	60 mW ± 5 mW
Laser Mode	CW
Operating Voltage Input	12 VDC
Operating Current	< 400 mA @ 12 VDC
Numerical Aperture	0.5 NA
Control Interface	Variable Laser Current Via External PWM - 7 bits/128 steps per color
Control Method	TTL active low user control - handheld push button controller available
Connector Receptacle	FC
Circuit Protection	Static, Surge, Reverse Polarity

Environmental and Regulatory:

Regulatory	CDRH Class IIIa (IEC Class 3R) Laser, ROHS Compliant
MTTF	8000 hrs at 25 ± 3 °C
Case Operating Temperature Range	- 10 to + 50 °C
Storage Temperature Range	- 40 to + 80 °C

Electrical Interface:

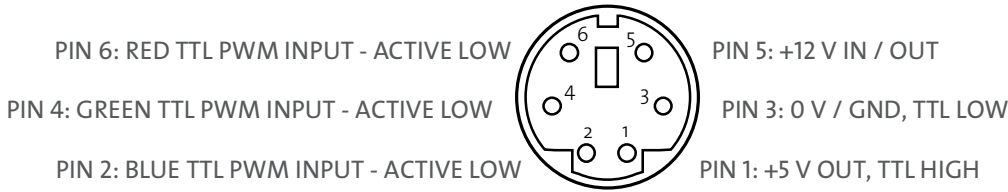
Power Receptacle

IEC 60130-10 Type A; 5.5 mm OD, 2.1 mm ID Barrel;
Polarity: Barrel Negative, Tip Positive

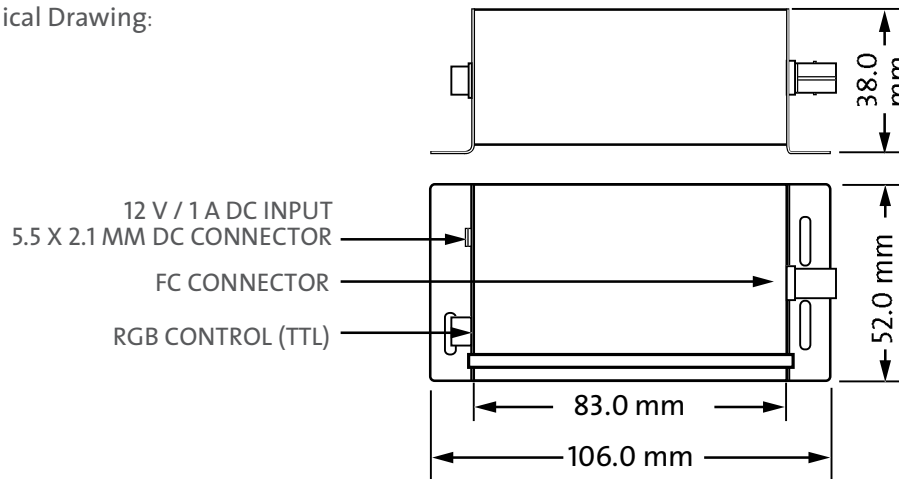
RGB Control Receptacle

KMDRLX-6S-BS Female Mini DIN mates to KMDLAX-6P Male Mini DIN

Receptacle Pinout:



Mechanical Drawing:



Notes:

The light emitted from these sources exceed the exposure limits associated with the eye. As such, a direct exposure to the eye could cause permanent damage to your eye sight. However, with proper use, the risk of injury is unlikely. Read and follow these safety precautions when using laser sources.

- Before turning on the laser, always be sure that it is pointed away from yourself and others. Never direct a laser output at another person.
- Before turning on the laser, always be sure that it is connected to a length of Fibrance Light Diffusing Fiber of a length greater than or equal to one diffusion length.
- Never look directly into a laser source.
- Follow the same rules for direct reflections of laser light from reflective surfaces.



CORNING | Fibrance™ Light-Diffusing Fiber

For more information, visit our website:
www.corning.com/fibrance

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