

## Triplex - RGB Fiber Coupled White Laser Diode

### Features:

- RGB (638nm+520nm+450nm) Solution
- 3um Single Mode Fiber
- >20mW Power for Each Wavelength
- Perfect White Laser Output
- Built-in TE Cooler

### Applications:

- Endoscopy
- Aiming Beam
- Bioscience
- Illumination



WAVESPECTRUM can offer Triplex-RGB Fiber Coupled White Laser Module. We couple the Red (638nm), Green (520nm) and Blue (450nm) Laser into one piece of fiber to get the perfect white Laser. The Fiber Type can be Single Mode Fiber (SMF), Multi-Mode Fiber (MMF) and Polarization Maintaining Fiber (PMF). The fiber core can be 3um, 9um, 50um, 105um, etc. The output power can be up to 200mW. By controlling the ratio of RGB Laser, we can get the perfect white laser. Meanwhile, by adjusting the ratio, various colors of laser also can be obtained.

Meanwhile, various of RGB Wavelength Combinations are available, such as Red Laser (635nm, 650nm, 660nm, 670nm, 685nm) + Green Laser (505nm, 515nm, 520nm) + Blue Laser (405nm, 450nm, 460nm).

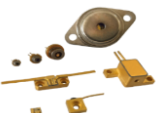





WAVESPECTRUM can offer various wavelengths listed as below: 375nm, 405nm, 445nm/450nm, 465nm, 488nm, 505nm/510nm, 515nm/520nm/525nm, 633nm, 635nm/638nm/640nm/642nm, 650nm/658nm/660nm, 670nm, 685nm/690nm, 705nm, 730nm, 755nm/760nm/770nm, 780nm/785nm, 795nm, 800nm/808nm/810nm, 820nm/830nm, 840nm/850nm/860nm, 880nm, 905nm, 915nm, 940nm, 976nm/980nm, 1060nm/1064nm, 1210nm, 1270nm, 1280nm, 1290nm, 1310nm, 1330nm, 1350nm, 1370nm, 1390nm, 1410nm, 1430nm, 1450nm, 1470nm, 1490nm, 1510nm, 1530nm, 1550nm, 1570nm, 1590nm, 1610nm, 1625nm, 1650nm, 1720nm, 1900nm, 1920nm.

WAVESPECTRUM can provide a variety of laser products: single mode laser diode, multi-mode laser diode, single mode fiber coupled laser modules, polarization maintaining fiber coupled laser modules, multi-mode pigtailed laser modules, fiber detachable laser modules, RGB white fiber coupled laser module, medical laser module, turnkey fiber coupled laser system, etc. The main packages for the lasers can be: TO18 | TO5 | C-mount | TO3 | E-mount | H-mount | COS | 2-pin | 4-pin | 9-pin | 14-pin.

WAVESPECTRUM - welcome to to inquiry any time!

Pls visit our Website for more info.: <http://www.wavespectrum-laser.com.cn/index.html>

### MORE CHOICES, MORE IDEAS

												
Laser Diode		Fiber Coupled Laser Module		Fiber Receptacle LD		Laser System		RGB Pigttailed White Laser		Medical Laser Module		
375nm	405nm	445nm	465nm	488nm	505nm	520nm	525nm	635nm	650nm	660nm	670nm	680nm
685nm	760nm	785nm	790nm	808nm	830nm	850nm	860nm	880nm	905nm	915nm	940nm	980nm
1064nm	1210nm	1270nm	1280nm	1290nm	1310nm	1330nm	1350nm	1370nm	1390nm	1410nm	1430nm	1450nm
1470nm	1490nm	1510nm	1530nm	1550nm	1570nm	1590nm	1610nm	1625nm	1650nm	1720nm	1900nm	1920nm

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## Triplex - RGB Fiber Coupled White Laser Diode

Part Number	Triplex-WSLX-445/020m-520/020m-635/020m-4-H-T		
PARAMETER	SYMBOL	VALUE	UNIT OF MEASURE
Reverse Voltage	$V_r$	2.0	V
Operating Temperature	$T_{op}$	-10~+50	°C
Storage Temperature	$T_{stg}$	-40~+80	°C
Lead Soldering Temperature (10 sec.)	$T_{is}$	260	°C
Typical Specification (@25°C)		Wavelength-1	Wavelength-2
Optical Specifications	Center Wavelength	450nm±10nm	520nm±10nm
	Output Power (CW)	20mW	20mW
	Spectral Width(FWHM)	2nm	2nm
	Wavelength Temp. Coefficient	0.05nm/°C	0.05nm/°C
	M <sup>2</sup> Value	<1.3	<1.3
	Beam Type	Gaussian Beam	
	Laser Type	FP	
Fiber Specifications	Fiber Core	3um	
	N.A.	0.12	
	Fiber Type	Single Mode Fiber	
	Fiber Length	>80cm	
	Fiber Connector	FC/SMA905/SC/ST	
Electrical Specifications	Threshold Current	25mA	60mA
	Operating Current (Typ.)	140mA	200mA
	Operating Voltage	6.5V	7.5V
TE Cooler Specifications	TEC Current (Max.)	3.5A	
	TEC Voltage (Max.)	7.0V	
Thermistor	Thermistor (@25°C)	10K	
Other Specifications	Package	HHL-01	
	Recommended Operating Temp.	25°C	

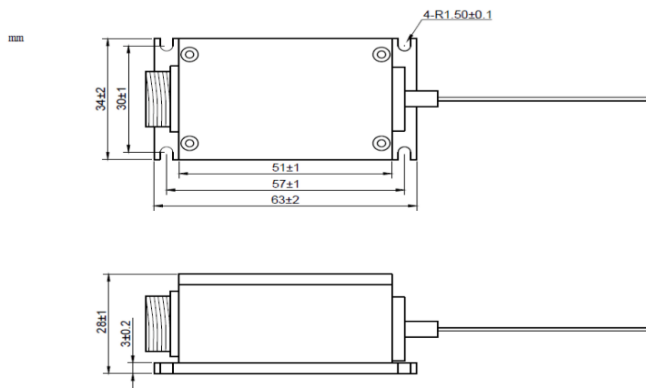


**Laser Beam with 3um SM Fiber:**

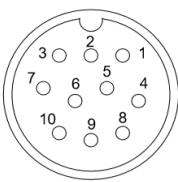


**Product Package View:**

**HHL-01 Package View:**



**Pin Bottom View: HHL-01**



PIN	FUNCTION	PIN	FUNCTION
1 (Blue)	445nm LD(+)	6 (Black)	635nm LD(-)
2 (Green)	445nm LD(-)	7 (Orange)	Thermistor
3 (White)	520nm LD(+)	8 (Purple)	Thermistor
4 (Yellow)	520nm LD(-)	9 (Brown)	TEC(+)
5 (Red)	635nm LD(+)	10 (Gray)	TEC(-)

