

## Triplex - RGB Fiber Coupled White Laser Diode

### Features:

- RGB (638nm+520nm+450nm) Solution
- 9um Fiber (SMF-28)
- 30mW Power for Each Wavelength
- White Laser Light 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), Multimode Fiber (MMF) and Polarization Maintaining Fiber (PMF). The fiber core can be 3um, 9um, 50um, 105um, etc. The output power can 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 Pigtailed 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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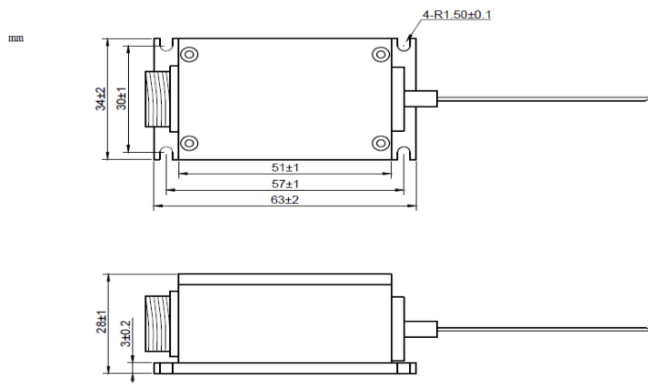


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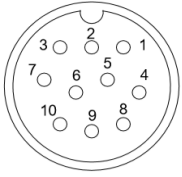
Part Number		Triplex-WSLX-445/030m-520/030m-635/030m-9-H-T		
PARAMETER	SYMBOL	VALUE	UNIT OF MEASURE	
Reverse Voltage	$V_r$	2.0	V	
Operating Temperature	$T_{op}$	-10~+50	°C	
Storage Temperature	$T_{stg}$	-40~+80	°C	
Lead Soldering Temperature (10 sec.)	$T_{is}$	260	°C	
Typical Specification (@25°C)		Wavelength-1	Wavelength-2	Wavelength-3
Optical Specifications	Center Wavelength	450nm±10nm	520nm±10nm	638nm±10nm
	Output Power (CW)	30mW	30mW	30mW
	Spectral Width(FWHM)	2nm	2nm	2nm
	Wavelength Temp. Coefficient	0.05nm/°C	0.05nm/°C	0.2nm/°C
	Laser Type	FP		
Fiber Specifications	Fiber Core	9um		
	N.A.	0.12		
	Fiber Type	SMF-28		
	Fiber Length	>80cm		
	Fiber Connector	FC/SMA905/SC/ST		
Electrical Specifications	Threshold Current	30mA	40mA	50mA
	Operating Current (Typ.)	120mA	200mA	160mA
	Operating Voltage	6.0V	7.5V	2.7V
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		

### 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(-)

