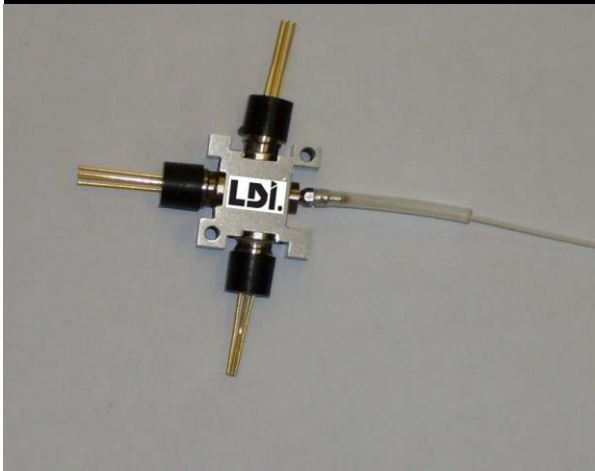


## TCW RGB TriBiner Visible Laser TCW RGBS-400R



- Wavelengths: 450nm, 520nm, 638nm
- Compact Space Efficient Footprint
- Cost Saving Parts Count Reduction
- Several Fiber Pigtail Options Available
- Typical Applications:  
RGB Displays  
RGB Projectors  
Optical Sensors
- RoHS Compliant

OSI Laser Diode, Inc's TCW TriBiner fiber coupled lasers are designed to meet efficient footprint requirements of the visible laser display market. The TCW RGBS-400R TriBiner is a Red, Green, Blue laser diode module efficiently coupling all three wavelengths into an RGB400 singlemode fiber pigtail. Additional fiber pigtail options are available.

### Characteristics @ $T_a = 25^\circ \text{C}$

### Standard Model Specifications

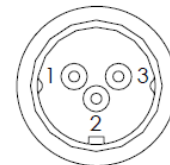
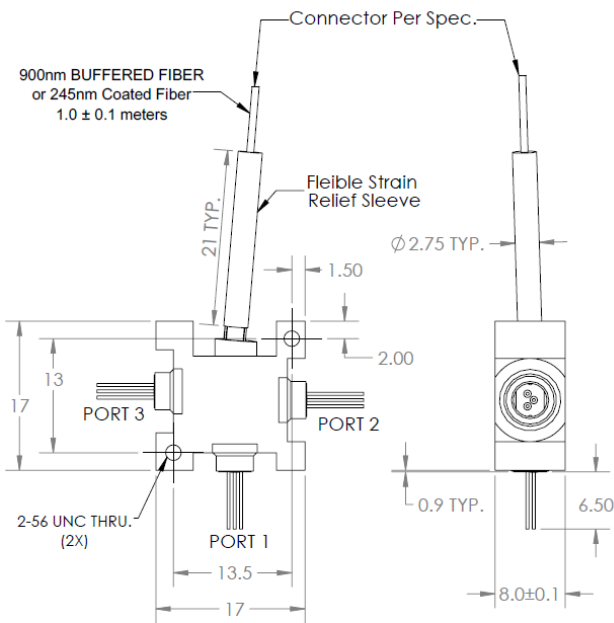
TCWRGBS-400R

	Parameters	Symbol	Conditions @ 25° C	Typ.	Units
Port1	Optical power (fiber)	$P_o$	70mA CW	3	mW
	Center wavelength	$\lambda$	70mA CW	638	nm
	Spectral width (FWHM)	$\Delta\lambda$	70mA CW	2	nm
	Threshold current	$I_{th}$	CW	50	mA
Port2	Optical power (fiber)	$P_o$	65mA CW	3	mW
	Center wavelength	$\lambda$	65mA CW	520	nm
	Spectral width (FWHM)	$\Delta\lambda$	65mA CW	2	nm
	Threshold current	$I_{th}$	CW	40	mA
Port3	Optical power (fiber)	$P_o$	50mA CW	3	mW
	Center wavelength	$\lambda$	50mA CW	450	nm
	Spectral width (FWHM)	$\Delta\lambda$	50mA CW	2	nm
	Threshold current	$I_{th}$	CW	30	mA
Common	Operating temp. range	$T_{op}$	@ rated drive conditions	-20 to 50	°C
	Storage temp. range	$T_{stg}$	Non operating	-40 to 85	°C
	Fiber Length	L	per mechanical outline	1	Meter
	Fiber Type	$F_t$		4 / 125 / 900 um SMF	um

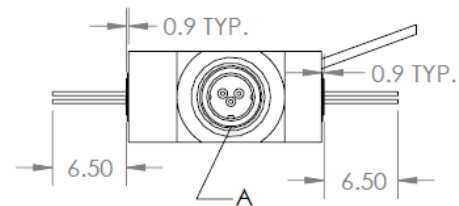
Reliability data available upon request

## Combiner Package and Pin Out

TCW RGBM-105R PIN OUT TABLE				
Port	Laser	Pin 1	Pin 2	Pin 3
1	638nm	Cathode	Case	Anode
2	520nm	Cathode	Case	Anode
3	450nm	Cathode	Case	Anode



DETAIL A  
SCALE 6 : 1



## Part Ordering Information

**Personal Hazard and Handling Precautions:**  
Handle optical fiber with normal care, avoiding stretch, tension, twist, kink or bend abuse. **ESD** precautions apply. Normal aversion reactions will protect from radiation hazards to the eye associated with devices of this kind.  
**Class 3R Laser.**

**Warranty:**  
Please refer to your product purchase agreement for complete details or check with your Laser Diode sales representative.

**Notice:**  
Laser Diode Inc. reserves the right to make changes to the products or information contained herein without notice. No liability is assumed as a result of their use or application.



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