

- Wavelengths: 650nm, 850nm, 1310nm, and 1550nm
- High Peak Optical Power
- Includes 650nm Red Laser for Fault Finding
- Compact Space Efficient Footprint
- Cost Saving Parts Count Reduction
- RoHS Compliant

### Typical Applications:

OTDR Instruments  
 Spectroscopy  
 Photon Counting  
 Optical Sensors  
 Talk Sets



OSI Laser Diode, Inc.'s TCW TriBiner Series fiber coupled lasers are designed to meet the performance demands of the optical test equipment marketplace. These high peak optical power lasers serve 850nm through 1550nm wavelengths and are available in a compact triplex package. The TriBiner incorporates a 650nm red laser for convenient fault finder capability.

### Characteristics @ T<sub>a</sub>= 25°C

### Standard Model Specifications

Reliability data available upon request

Other combinations are available upon request

		TCW6833M-XXR			TCW6353S-XXR		
	Parameters	Symbol	Conditions	Typ.	Conditions	Typ.	Units
Port 1	Optical power (fiber)	P <sub>o</sub>	4A I <sub>f</sub> ; 200 ns PW; 0.1% D/C	45	1A I <sub>f</sub> ; 10 us PW; 1% D/C	85	mW
	Center wavelength	λ	4A I <sub>f</sub> ; 200 ns PW; 0.1% D/C	850	1A I <sub>f</sub> ; 10 us PW; 1% D/C	1550	nm
	Spectral width (RMS)	Δλ	4A I <sub>f</sub> ; 200 ns PW; 0.1% D/C	6	1A I <sub>f</sub> ; 10 us PW; 1% D/C	8	nm
	Threshold current	I <sub>th</sub>	P <sub>w</sub> = 200 ns; D/C = 0.1%	250	P <sub>w</sub> = 10 us; D/C = 1%	35	mA
Port 2	Optical power (fiber)	P <sub>o</sub>	1A I <sub>f</sub> ; 10 us PW; 1% D/C	225	1A I <sub>f</sub> ; 10 us PW; 1% D/C	90	mW
	Center wavelength	λ	1A I <sub>f</sub> ; 10 us PW; 1% D/C	1310	1A I <sub>f</sub> ; 10 us PW; 1% D/C	1310	nm
	Spectral width (RMS)	Δλ	1A I <sub>f</sub> ; 10 us PW; 1% D/C	5	1A I <sub>f</sub> ; 10 us PW; 1% D/C	5	nm
	Threshold current	I <sub>th</sub>	P <sub>w</sub> = 10 us; D/C = 1%	30	P <sub>w</sub> = 10 us; D/C = 1%	30	mA
Port 3	Optical power (fiber)	P <sub>o</sub>	40mA I <sub>f</sub>	0.5	40mA I <sub>f</sub>	0.5	mW
	Center wavelength	λ	40mA I <sub>f</sub>	650	40mA I <sub>f</sub>	650	nm
	Threshold current	I <sub>th</sub>		25		25	mA
Common	Operating temp. range	T <sub>op</sub>	@ rated drive conditions	-20 to 50	@ rated drive conditions	-20 to 50	°C
	Storage temp. range	T <sub>stg</sub>	non operating	-40 to 85	non operating	-40 to 85	°C
	Fiber Length	L	per mechanical outlines	1	per mechanical outlines	1	Meter
	Fiber Type	F <sub>t</sub>	62.5/ 125/ 900 um MMF		9/ 125/ 900 um SMF		

