

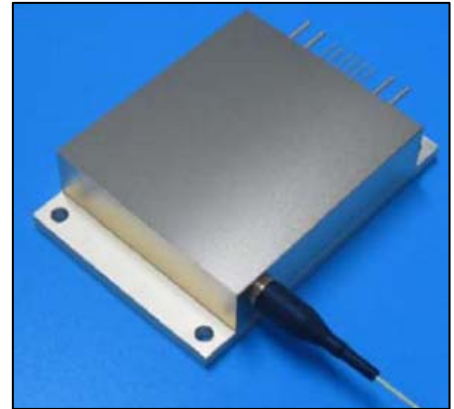
# Fiber-coupled Laser Diode Module STC-LDM-793-30-D1

## Characteristics

Output Power, 3W  
 Fiber Coupling 105 $\mu$ m  
 Fiber Core Dia. 0.22NA  
 PD, thermistor optional

## Application

Laser pumping  
 Medical application



		Symbol	Typical	Unit
Optical	CW Out Power	Pop	30	W
	Center Wavelength	$\lambda$	793 $\pm$ 3	nm
	Spectral Width (90% of Power)	$\Delta\lambda$	<3.0	nm
	Wavelength Shift width Temperature	$\Delta\lambda/T\Delta$	0.3	nm / $^{\circ}$ C
Electrical	Threshold Current	I <sub>th</sub>	0.5	A
	Operating current	I <sub>op</sub>	2.7	A
	Operating Voltage	V <sub>op</sub>	25.5	V
	Slop Efficiency	$\eta_{es}$	13.5	W / A
	Power Conversion Efficiency	$\eta_{ep}$	44	%
Fiber	Fiber Core Diameter	d <sub>core</sub>	105	$\mu$ m
	Fiber Cladding Diameter	d <sub>clad</sub>	125	$\mu$ m
	Fiber Buffer Diameter	d <sub>buffer</sub>	250	$\mu$ m
	Numerical Aperture	NA	0.22	-
	Fiber Length	L	1.0	m

Parameter	Operating Temperature/ $^{\circ}$ C	Operating Relative Humidity/%	Storage Temperature/ $^{\circ}$ C	Storage Relative Humidity/%	Lead Soldering Temperature, 10s max/ $^{\circ}$ C
Min	10	-	-20	-	-
Max	40	75	80	90	250

