

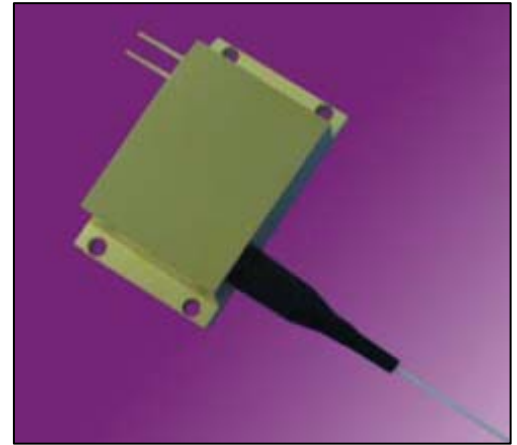
Fiber-coupled Laser Diode Module STC-LDM-793-8-T4S

Characteristics

Output Power, 8W
Fiber Coupling 105 μ m
Fiber Core Dia. 0.22NA

Application

Laser pumping
Medical application



		Symbol	Typical	Unit
Optical	CW Out Power	Pop	8	W
	Center Wavelength	λ	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 _{th}	0.5	A
	Operating current	I _{op}	2.7	A
	Operating Voltage	V _{op}	6.8	V
	Slop Efficiency	η_{es}	3.6	W / A
	Power Conversion Efficiency	η_{ep}	44	%
Fiber	Fiber Core Diameter	d _{core}	105	μ m
	Fiber Cladding Diameter	d _{clad}	125	μ m
	Fiber Buffer Diameter	d _{buffer}	250	μ 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

