

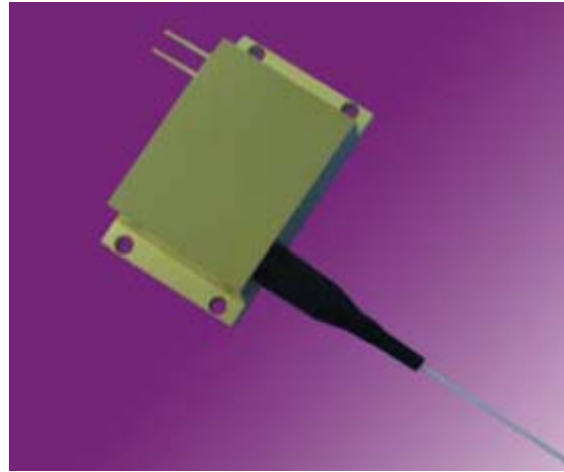
Fiber-coupled Laser Diode STC-LDM-976-27-T4S

Characteristics

Output Power: 27W
Wavelength: 976nm locked
Fiber Core Diameter: 105µm
Numerical Aperture: 0.22
Fiber laser feedback protection

Applications

Fiber laser pumping
Medical Applications
Material processing



	Parameter	Symbol	Typical	Unit
Optical	CW Out Power	Pop	27	W
	Center Wavelength		976±0.5	nm
	Spectral Width (90% of Power)	Δ	<0.5	nm
	Wavelength Shift with Temperature	Δ / ΔT	0.02	nm / °C
Electrical	Threshold Current	I _{th}	0.5	A
	Operating current	I _{op}	9	A
	Operating Voltage	V _{op}	6.6	V
	Slope Efficiency	η	3.3	W/A
	Power Conversion Efficiency	η _{ep}	46	%
Fiber	Core Diameter	d _{core}	105	µm
	Cladding Diameter	d _{clad}	125	µm
	Fiber Buffer Diameter	D _{buffer}	250	µm
	Fiber Length	L	1.0	m
	Numerical Aperture	NA	0.22	-

Parameter	Operating Temperature/°C	Operating Relative Humidity/%	Storage Temperature/°C	Storage Relative Humidity/%	Lead Soldering Temperature, 10s max/°C
Min	10	-	-20	-	-
Max	40	75	80	90	250

