

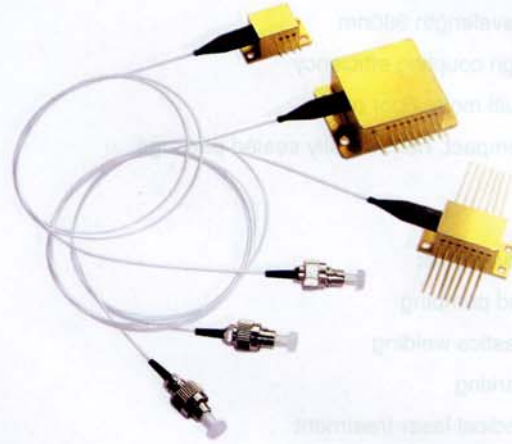
980nm Fiber-Coupled Modules with Single Emitter

Features:

- Wavelength 980nm
- High coupling efficiency
- Multi mode fiber pigtail
- Internal TE-cooler
- Compact, hermetically sealed package

Applications:

- End pumping
- Plastics welding
- Medical laser treatment
- Printing



Absolute Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	V_r	2.0	V
Operating Temperature	T_{op}	+10~+30	°C
Storage Temperature	T_{stg}	-20 ~ +80	°C
Lead Soldering Temperature (10 sec.)	T_{ls}	260	°C

Specifications	GCSSLX-06-002-2	GCSSLX-06-004-2	GCSSLX-06-007-2
Center Wavelength@25°C	980±5nm	980±5nm	980±5nm
Output Power (Typ.)	2W	4W	7W
Spectral Width (FWHM)	≤ 3nm	≤ 3nm	≤ 3nm
Temperature Coefficient of Wavelength	0.3nm/°C	0.3nm/°C	0.3nm/°C
Threshold Current (Typ.)	350mA	550mA	1500mA
Operating Current (Typ.)	3.0A	6.0A	10.0A
Operating Voltage	≤ 2.2V	≤ 2.2V	≤ 2.2V
Thermistor Value (25°C)	(10±0.5)KΩ	(10 ±0.5)KΩ	(10 ±0.5)KΩ
TEC Max Current	2.0A	4.0A	4.0A
TEC Max Voltage	3.8V	8.6V	9.8V
Fiber Core Diameter	100 μm	200 μm	200 / 400 μm
Fiber Length (Typ.)	70cm	70cm	70cm
Minimum Bend Radius	25mm	25mm	25mm
Fiber Numerical Aperture	0.22	0.22	0.22
Connector Type	FC/ST/SMA905	FC/ST/SMA905	FC/ST/SMA905
Package Style	14-pin Butterfly	9-pin HHL	9-pin HHL