

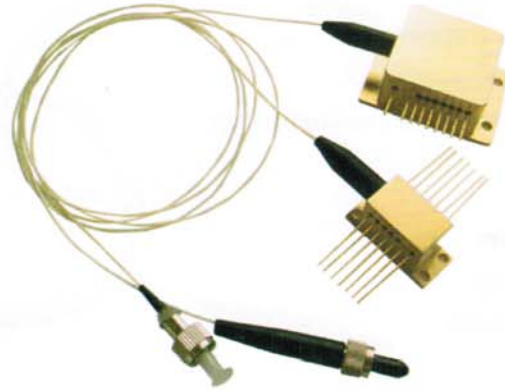
## 808nm Fiber-Coupled Modules with Single Emitter

### Features:

- 808nm wavelength
- 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	GCSLX-05 -002-2	GCSLX-05 -003-2	GCSLX-05 -004-2	GCSLX-05 -005-2	GCSLX-05 -007-2
Peak Wavelength@25°C	808 ± 10nm	808 ± 10nm	808 ± 10nm	808 ± 10nm	808 ± 10nm
Output Power (Typ.)	2W	3W	4W	5W	7W
Spectral Width (FWHM)	≤ 3nm	≤ 3nm	≤ 3nm	≤ 3nm	≤ 3nm
Temperature Coefficient of Wavelength	0.3nm/°C	0.3nm/°C	0.3nm/°C	0.3nm/°C	0.3nm/°C
Threshold Current (Typ.)	400mA	700mA	700mA	750mA	1500mA
Operating Current (Typ.)	2.5A	4.0A	5.0A	6.5A	10.0A
Operating Voltage	≤ 2V	≤ 2V	≤ 2V	≤ 2V	≤ 2.2V
Thermistor Value (25°C)	(10 ± 0.5)KΩ	(10 ± 0.5)KΩ	(10 ± 0.5)KΩ	(10 ± 0.5)KΩ	(10 ± 0.5)KΩ
TEC Max Current	2.0A	4.0A	4.0A	4.0A	6.0A
TEC Max Voltage	3.8V	9.8V	9.8V	9.8V	9.8V
Fiber Core Diameter	100μm	100μm	100μm	200μm	200 / 400μm
Fiber Numerical Aperture	0.22	0.22	0.22	0.22	0.22
Fiber Length (Typ.)	70cm	70cm	70cm	70cm	70cm
Minimum Bend Radius	25mm	25mm	25mm	25mm	25mm
Connector Type	FC/ST/SMA905	FC/ST/SMA905	FC/ST/SMA905	FC/ST/SMA905	FC/ST/SMA905
Package Style	14-pin Butterfly	9-pin HHL	9-pin HHL	9-pin HHL	9-pin HHL