

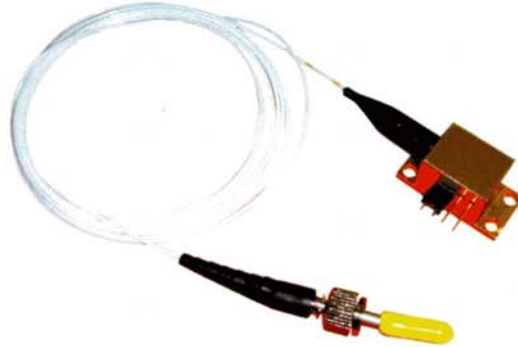
808nm Fiber-Coupled Modules with Single Emitter

Features:

- > Wavelength 808nm
- > High coupling efficiency
- > Multi mode fiber pigtail
- > Compact, hermetically sealed package

Applications:

- > End pumping
- > Plastics welding
- > Marking
- > Medical laser treatment
- > Illuminations



Absolute Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	V_r	2.0	V
Operating Temperature	T_{op}	+10~+35	°C
Storage Temperature	T_{stg}	-20 ~ +80	°C
Lead Soldering Temperature (10 sec.)	T_{ls}	260	°C

Specifications	GCSLX-05 -002-1	GCSLX-05 -003-1	GCSLX-05 -004-1	GCSLX-05 -005-1
Center Wavelength@25°C	808±5nm	808±5nm	808±5nm	808±5nm
Output Power (Typ.)	2W	3W	4W	5W
Spectral Width (FWHM)	≤ 3nm	≤ 3nm	≤ 3nm	≤ 3nm
Temperature Coefficient of Wavelength	0.3nm/°C	0.3nm/°C	0.3nm/°C	0.3nm/°C
Threshold Current (Typ.)	400mA	700mA	700mA	750mA
Operating Current (Typ.)	2.5A	4.0A	5.0A	6.5A
Operating Voltage	≤ 2V	≤ 2V	≤ 2V	≤ 2V
Recommended Case Temperature	25°C	25°C	25°C	25°C
Power Conversion Efficiency	40%~45%	40%~45%	40%~45%	40%~45%
Fiber Core Diameter	100 μm	100 μm	100 μm	200 μm
Fiber Numerical Aperture	0.22	0.22	0.22	0.22
Fiber Length	70cm	70cm	70cm	70cm
Connector Type	FC/ST/SMA905	FC/ST/SMA905	FC/ST/SMA905	FC/ST/SMA905
Package Style	4-pin air cool	4-pin air cool	4-pin air cool	4-pin air cool