

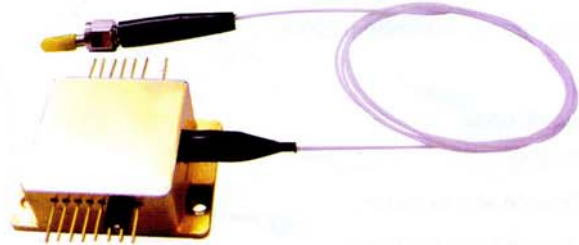
808nm Single-Fiber Output Dual-Wavelength Laser Modules

Features:

- > High brightness
- > Integrated aiming beam (2mW@650nm)
- > High coupling efficiency
- > Compact, hermetically sealed package
- > Long lifetime

Applications:

- > Dentistry
- > Surgery
- > Aesthetics
- > Physiotherapy



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_{is}	260	°C

Specifications	GCSLX-Duet -05-002	GCSLX-Duet -05-003	GCSLX-Duet -05-004	GCSLX-Duet -05-005	GCSLX-Duet -05-007
Center 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
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	4.0A
TEC Max Voltage	3.8V	8.6V	8.6V	8.6V	9.8V
Fiber core Diameter	200 μm	200 μm	200 μm	200 μm	200 or 400 μm
Fiber Numerical Aperture	0.22	0.22	0.22	0.22	0.22
Fiber Length	70cm	70cm	70cm	70cm	70cm
Connector Type	SMA905/FC/ST	SMA905/FC/ST	SMA905/FC/ST	SMA905/FC/ST	SMA905/FC/ST
Pilot Beam Wavelength	650±10nm	650±10nm	650±10nm	650±10nm	650±10nm
Pilot Beam Operation (Typ.)	5V voltage	5V voltage	5V voltage	5V voltage	5V voltage
Package Style	16-pin HHL	16-pin HHL	16-pin HHL	16-pin HHL	16-pin HHL