

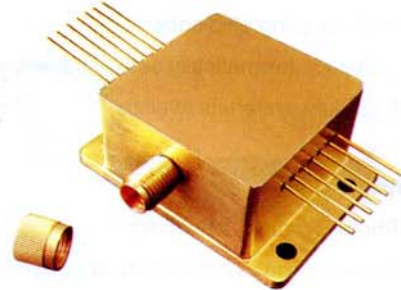
980nm Receptacle Dual-Wavelength Laser Modules

Features:

- > Wavelength 980nm
- > 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	GCSLR-Duet-06-002	GCSLR-Duet-06-004	GCSLR-Duet-06-007
Peak Wavelength@25°C	980±10nm	980±10nm	980±10nm
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	200μm	200μm	200 or 400μm
Fiber Numerical Aperture	0.22	0.22	0.22
Connector Type	SMA905 or ST	SMA905 or ST	SMA905 or ST
Pilot Beam Wavelength	650±10nm	650±10nm	650±10nm
Pilot Beam Operation (Typ.)	5V voltage	5V voltage	5V voltage
Package Style	Receptacle	Receptacle	Receptacle