

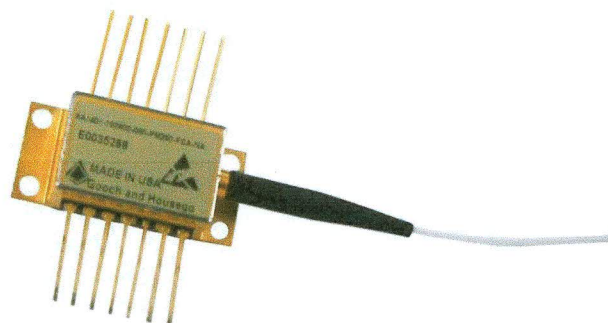
500-700mW Single Mode Pump Lasers

Features

- Tested to Telcordia GR-468-CORE
- Optional Bragg grating
- Internal cooler and thermistor

Applications

- Telecom
- CATV
- Defense
- Life Science



General Description

The Gooch & Housego line of single mode, cooled 980 nm pump lasers deliver up to 700mW of fiber-coupled power. The modules are packaged using the unique, patent pending technology Uniline™ for permanent fiber alignment. Uniline™ provides superior end-of-life optical and electrical performance, achieved by maintaining a highly stable, all-axis alignment lock between the laser chip and the tip of the single-mode fiber.

The hermetically sealed 14 pin butterfly package is available with a fiber Bragg grating and includes thermoelectric cooler, thermistor, monitor photodiode and UniDry™ getter. The fiber Bragg grating precisely locks the center wavelength over extended power and temperature range. Center wavelengths in the range of 976 nm to 980 nm are available with tight wavelength control. G&H's Uniline™ family of pump lasers are tested to meet the requirements outlined in Telcordia GR-468-CORE.

Absolute Maximum Ratings

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only and operation of the device at these or conditions beyond these are not implied. Exposure to absolute maximum ratings for extended periods of time may affect device reliability.

Parameter	Sym.	Condition	Min	Max	Unit
Storage Temperature	T _{STG}		-40	+85	°C
Operating Case Temperature	T _{OP}		-20	+65	°C
Laser Forward Current	I _F			1.2	A
Laser Reverse Voltage	V _R			2.5	V
Photo Diode Photo Current	I _{PD}			10	mA
Photo Diode Reverse Voltage	V _{PD}			20	V
TEC Current	I _{TEC}			6.0	A
TEC Voltage	V _{TEC}			4.0	V
Thermistor Current				2	mA
Thermistor Voltage				5	V
Lead Soldering Time				10	s
Lead Soldering Temperature				250	°C
ESD		HBM		500	V

