

DATA SHEET

980nm EDFA Pump Laser



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This is the New Power of Gould!

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PRODUCT DESCRIPTION

The 980nm EDFA Pump Laser consists of a 980nm quantum well laser device in a 14-pin "butterfly" package fitted with a thermoelectric cooler and monitor photodiode. The laser is fiber-coupled using proprietary fiber processes and techniques that enable the delivery of the maximum amount of single spatial mode power available.

FEATURES

- High power, EDFA WDM applications
- High power, 980nm pump source
- Cooled 14-pin "Butterfly" package, Flexcor1060 fiber

APPLICATIONS

- Erbium-doped fiber amplifier and WDM systems applications



SPECIFICATIONS

Parameter	Min	Typ	Max
Rated output power (mW)		120	
Wavelength (nm)	972	980	985
Threshold current (mA)		18	35
Operating current (mA)		245	300

ABSOLUTE MAXIMUM RATINGS (T=25C)

Laser element	
Forward current (mA)	350
Reverse current (mA)	25
Reverse voltage (V)	2
Thermistor	
Voltage (V)	5
Current (mA)	2
Thermoelectric Cooler	
Voltage (V)	3.5
Current (A)	1.4
Package	
Operating temperature (C)	-20 to +70
Storage temperature (C)	-40 to +85
Lead soldering duration (s)	10
Fiber yield strength (kgf)	1
Fiber bend radius (mm)	30

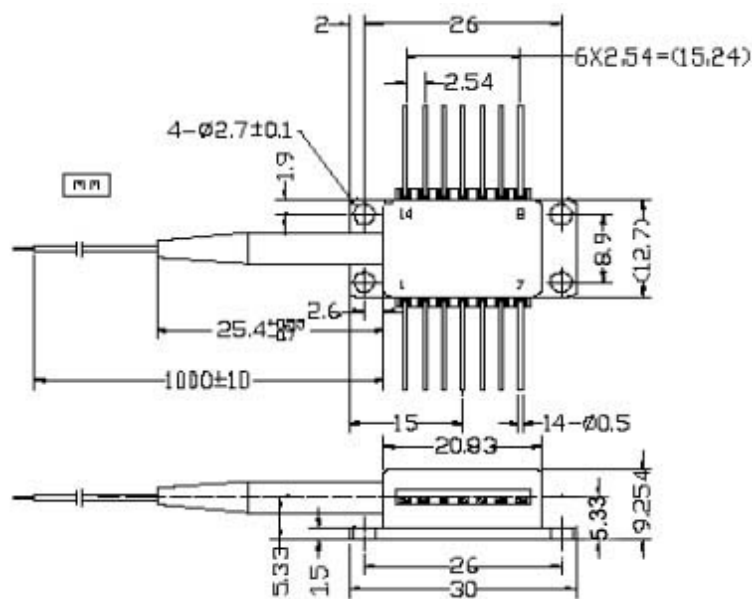


Fiber Optics

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PACKAGE DIMENSIONS



PIN CONNECTIONS

Pump Laser Ground

Pin	Description	Pin	Description
1	Cooler (+)	8	NC
2	Thermistor	9	NC
3	Detector (-)	10	LD (+), case ground
4	Detector (+)	11	LD (-)
5	Thermistor, case ground	12	NC
6	NC	13	Case ground
7	NC	14	Cooler (-)

Pump Laser Floating

Pin	Description	Pin	Description
1	Cooler (+)	8	NC
2	Thermistor	9	NC
3	Detector (-)	10	LD (+), floating
4	Detector (+)	11	LD (-)
5	Thermistor, case ground	12	NC
6	NC	13	Case ground
7	NC	14	Cooler (-)

ORDERING INFORMATION

Laser

LS-PL-980--

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Output Power
050M=50mW
060M=60mW
090M=90mW
120M=120mW
140M=140mW
150M=150mW
160M=160mW
180M=180mW
190M=190mW

Package
PLF= pump
laser floating
PLG=pump
laser ground

Connector
0=None
1=MU
2=ST
3=FC
4=SC
5=LC
6=FC/APC
7=SC/APC
9=LC/APC

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Pump Laser



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