飞格光电 FIBER GRID
Jiangsu Fiber Grid CO., LTD
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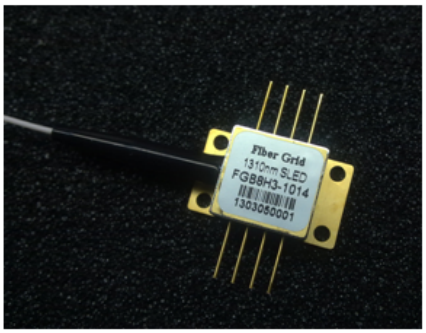
1310nm SLD 8PIN Butterfly Device

FGB8xx-xx1x-00

Features:

a. High power output
b. Metal-coupled and hermetic package
c. TEC inside
d. Polarization-maintaining or single-mode optical fiber
e. 8pin butterfly package



Applications

a. Fiber-optic gyroscope
b. Optic test
c. Optical fiber transmission system
d. Fiber-optic sensor
e. OCT

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Condition
Operating Case Temperature	T_c	-45	70	°C	--
Storage Temperature	T_{stg}	-55	80	°C	--
Reverse Voltage	Vr	--	2.0	V	
Forward current	Iop		150 350	mA	Po=0.2~4.0mW Po=5.0~10.0mW
Thermoelectric cooler voltage	VTEC		3.0	V	
Thermoelectric cooler current	ITEC		1.5	A	
Lead solder Temperature	--		260	°C	--
Lead Soldering Time	--		10	s	--

Optical/Electrical Characteristics (T=25℃, unless otherwise stated)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Optical Output Power	P_o	0.2 5.0	-- --	4.0 10.0	mW	Iop=100mA Iop=300mA
Forward Voltage	V_F	--	1.2	--	V	
Center Wavelength	λc	--	1310	--	nm	Iop=100mA
Bandwidth FWHM	Bw	30	40	-	nm	Iop=100mA
Spectral Ripple		--	--	0.2	dB	Iop=100mA
Polarization Extinction Ratio	PER	-- 15	-- --	1.5 --	dB	Low Polarization Rate High Polarization Rate
Thermistor Resistance	RT	9.5	10.0	10.5	KΩ	T=25 °C
Thermistor B-Value		--	3950	--	K	25℃/85℃
Tracking Error	Te	-1.0	--	1.0	dB	

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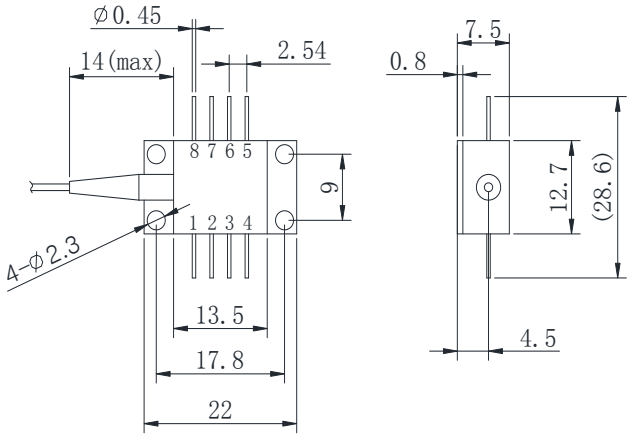
Dimensions And Pin Description

Dimensions are in millimeters. All dimensions are ±0.1mm unless otherwise specified.



Pin	Description
1	TE Cooler (+)
2	Thermistor
3	Thermistor
4	SLD (+)
5	SLD (-)
6	N/C
7	N/C
8	TE Cooler (-)

Order information

F G B 8 x x- x x 1 x– 0 0

Optical Connector: 2-- SC/APC Pigtail
4--FC/APC Pigtail

Optical power : 02—0.2mW, 05—0.5mW, 10—1.0Mw
20—2.0mW, 30—3.0mW, 40—4.0Mw
50—5.0mW, 60—6.0mW, 70—7.0mW
80—8.0mW, 90—9.0mW, 0A—10.0mW

SLED Chip Type: L3-- Low Polarization Rate 1310nm SLED
H3-- High Polarization Rate 1310nm SLED