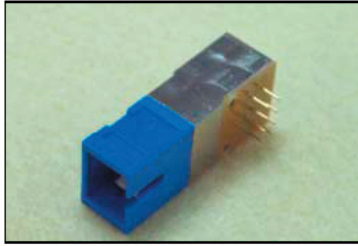


SGC-GC-XXB-X-XXSC



Features

- 1300nm or 1550nm Wavelength
- For Singlmode / Multimode

Applications

- High Optical Power
- Low Operating Current
- High Speed
- Low Modal Noise
- 8 Pin Package with SC
- High Operating Temperature

Absolute Maximum Ratings

Parameter	Symbol	Condition	Rating	Unit
Reverse Voltage	V_r	CW	2.5	V
Operating Current	I_{op}	CW	150	mA
Operating Temperature	T_{opr}	-	-20 ~ 70	°C
Storage Temperature	T_{stg}	-	-40 ~ 85	°C

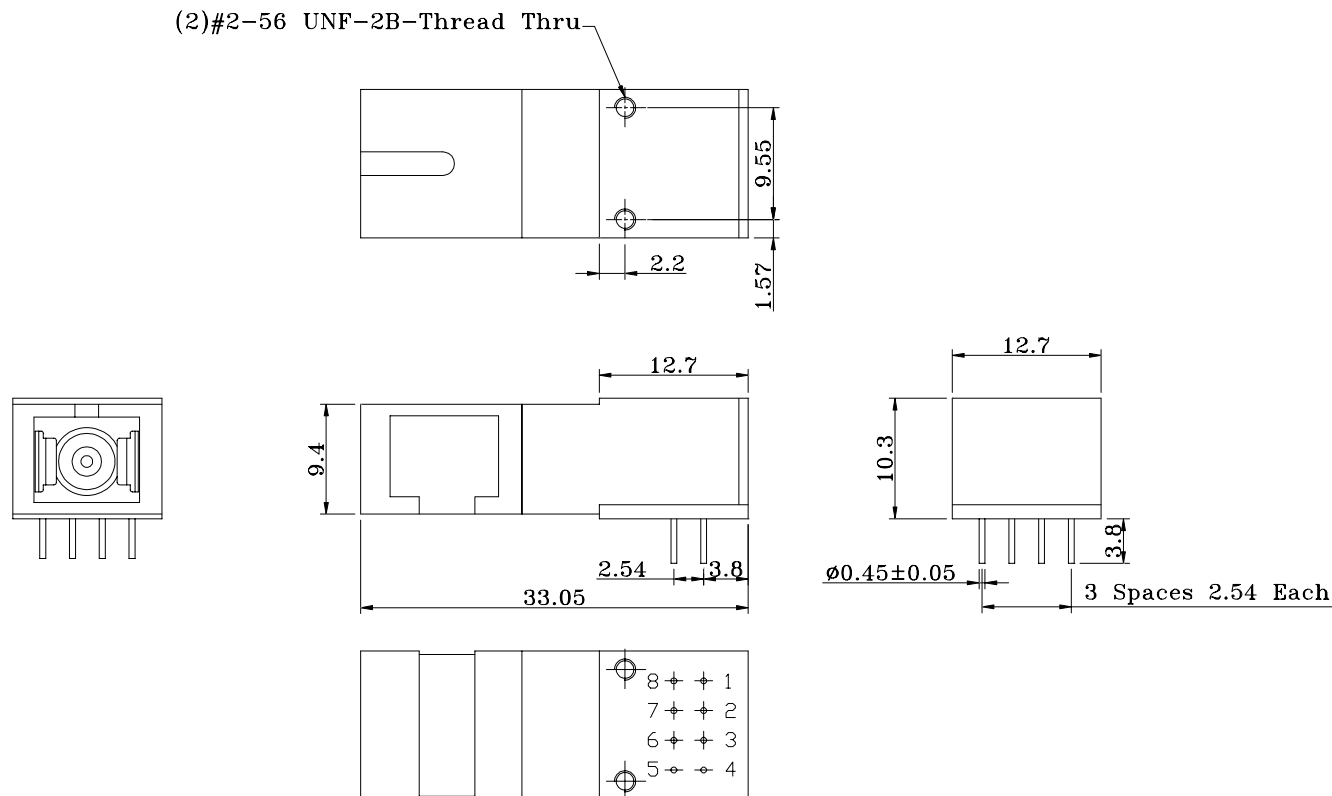
Optical and Electrical Characteristics 1310nm

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Wavelength	λ	1260	1300	1340	nm	CW
Spectral Width	$\Delta\lambda$	30	-	70	nm	CW(FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power (SM, 9/125 μ m) L M H	P_f	10 30 50	-	-	μ W	$I_{op}=80$ mA
Output Power(SM, 50/125 μ m) L M H	P_f	30 50 70	-	-	μ W	$I_{op}=80$ mA
Foward Voltage	V_f	-	1.2	1.7	V	CW
Rise Time	T_r	-	1.5	-	ns	
Fall Time	T_f	-	2.5	-	ns	

Optical and Electrical Characteristics 1550nm

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Peak Wavelength	λ	1510	1550	1590	nm	CW
Spectral Width(RMS)	$\Delta\lambda$	45	-	80	nm	CW(FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power(SM, 9/125 μ m) L M H	P_f	10 20 30	-	-	μ W	$I_{op}=80$ mA
Output Power(SM, 50/125 μ m) L M H	P_f	20 30 40	-	-	μ W	$I_{op}=80$ mA
Foward Voltage	V_f	-	1.2	1.7	V	CW
Rise Time	T_r	-	1.5	-	ns	
Fall Time	T_f	-	2.5	-	ns	

Package Style : SC Type Sugar Cube



LD Pin Assignment

1:Option 1

Pin	Function
1	N/C
2	Anode
3	Cathode
4	N/C
5	N/C
6	Anode
7	Anode
8	N/C

2:Option 2

Pin	Function
1	Case GND
2	Anode
3	Cathode
4	Case GND
5	Case GND
6	Anode
7	Anode
8	Case GND

SGC-GC-XXB-X-XXSC

Ordering Information

SGC-GC-XXB-X-XXSC

Family
SGC=Sugar Cube

Application
C=CW

Device
G=ELED (Long)

Wavelength
30:1300nm
55:1550nm

Tolerance
B=+/- 40nm

Power
L/M/H

Pinout
1=Option 1 (Tx)
2=Option 2 (Tx)

Fiber
S= Singlemode 9/125/900um
M= Multimode 50/125/900um

Connector
SC=SC

Warnings:

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

Legal Notes:

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