

SGC-GC-XXB-X-XXFC-XX



Features

- 1300nm or 1550nm Wavelength
- For Singlmode / Multimode Applications
- High Optical Power
- Low Operating Current
- High Speed
- Low Modal Noise
- 8 Pin Package with FC
- High Operating Temperature
- FC Type Sugar Cube
- For Data com Measurement Application
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)

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

(All optical data refer to a coupled 9/125 μ m SM & 50/125 μ m M/M fiber)

Optical and Electrical Characteristics 1300nm (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Wavelength	λ	1260	1300	1340	nm	CW
Spectral Width	$\Delta\lambda$	30	-	80	nm	CW
Operating Current	I_{op}	-	80	100	mA	CW
Output Power (SM, 9/125 μ m)	P_f	10	-	40	μ W	Iop=80 mA
L		30	-	60		
M		50	-	80		
Output Power (MM, 50/125 μ m)	P_f	30	-	-	μ W	Iop=80 mA
L		50	-	-		
M		70	-	-		
Foward Voltage	V_f	-	1.2	2.0	V	CW
Rise Time	T_r	-	1.5	-	ns	
Fall Time	T_f	-	2.5	-	ns	
Output Power Variation		-	4	-	dB	25°C to 70°C

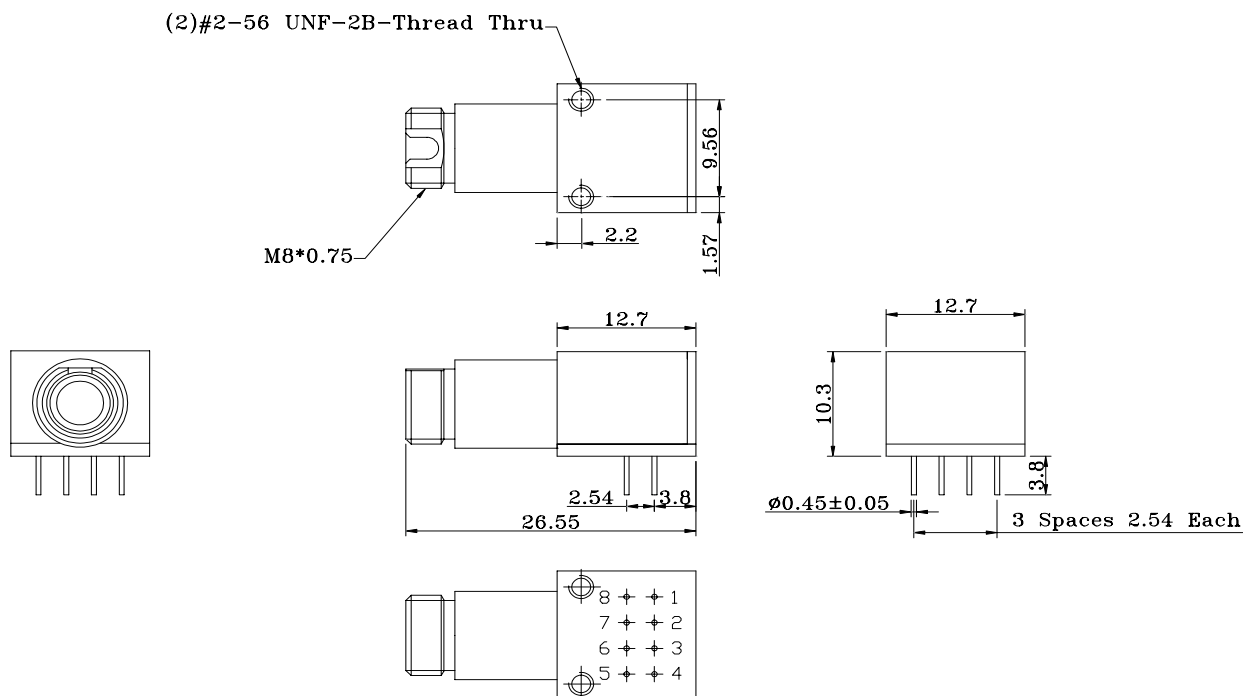
(All optical data refer to a coupled 9/125 μ m SM & 50/125 μ m M/M fiber)

Optical and Electrical Characteristics 1550nm (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Peak Wavelength	λ	1510	1550	1590	nm	CW
Spectral Width(RMS)	$\Delta\lambda$	45	-	80	nm	CW
Operating Current	I_{op}	-	80	100	mA	CW
Output Power(SM, 9/125 μ m)	P_f	10	-	-	μ W	Iop=80 mA
L		20	-	-		
M		30	-	-		
Output Power(MM, 50/125 μ m)	P_f	20	-	-	μ W	Iop=80 mA
L		30	-	-		
M		40	-	-		
Foward Voltage	V_f	-	1.2	2.0	V	CW
Rise Time	T_r	-	1.5	-	ns	
Fall Time	T_f	-	2.5	-	ns	
Output Power Variation		-	4	-	dB	25°C to 70°C

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Package Style : SC Type Sugar Cube Units in mm.



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

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Ordering Information

SGC-GC-XXB-X-XXFC-XX

Family
SGC=Sugar Cube

Application
C=CW

Tolerance
B=+/- 40nm

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

Connector
FC=FC

Device
G=ELED (Long)

Wavelength
30:1300nm
55:1550nm

Power
L/M/H

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

RoHS Compliant
-/G5/GR

Blank = RoHS non-compliant product
G5 = RoHS 5/6-compliant product (lead exemption)
GR = Full RoHS compliant product (no exemption)

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.

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