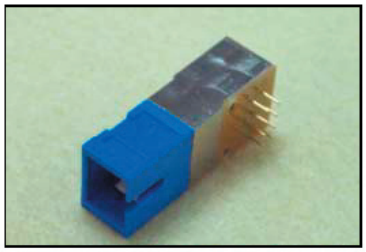
ELED SC Sugar Cube Transmitter

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	Δλ	30	-	70	nm	CW(FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power (SM, 9/125μm) L M H	P_f	 10 30 50	-	-	μW	Iop=80 mA
Output Power(SM, 50/125μm) L M H	P_f	 30 50 70	-	-	μW	Iop=80 mA
Foward Voltage	Vf	-	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)	Δλ	45	-	80	nm	CW(FWHM)
Operating Current	I_{op}	-	80	100	mA	CW
Output Power(SM, 9/125μm) L M H	P_f	 10 20 30	-	-	μW	Iop=80 mA
Output Power(SM, 50/125μm) L M H	P_f	 20 30 40	-	-	μW	Iop=80 mA
Foward Voltage	Vf	-	1.2	1.7	V	CW
Rise Time	T_r	-	1.5	-	ns	
Fall Time	T_f	-	2.5	-	ns	

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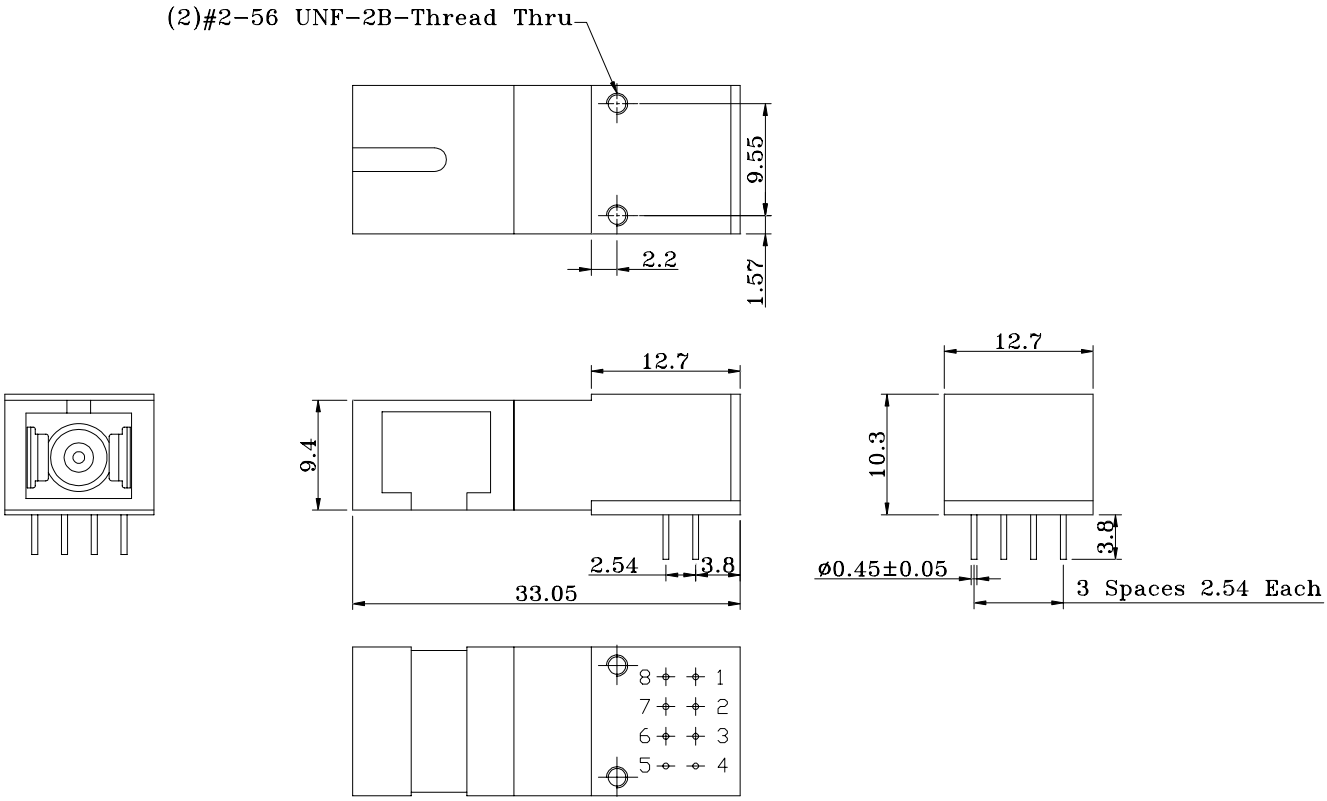
LUMNDS707-FEB2004
rev. A.0

Package Style : SC Type Sugar Cube



LD Pin Assignment

1:Option 1

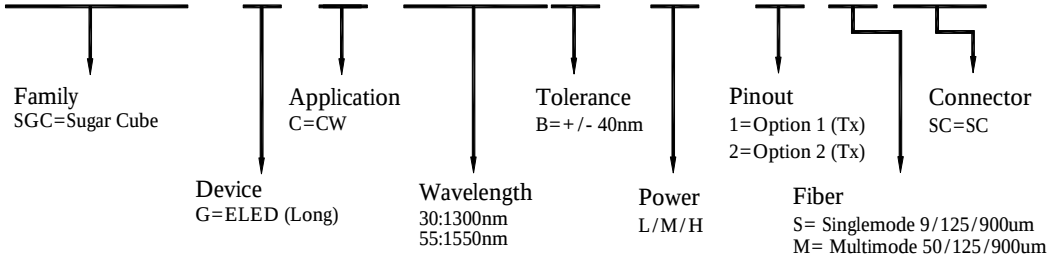
Pin	Function
1	N/C
2	Anode
3	Cathode
4	N/C
5	N/C
6	Anode
7	Anode
8	N/C

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

Ordering Information

SGC-GC-XXB-X-XXSC



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: