



Super Luminescent Light Emitting Module(14 pins)

GTA9002

Features

- Low Spectral Ripple,Broad Bandwidth,Low Polarization Sensitivity
- Industry-standard,14 Pin Butterfly Package
- Wavelength 750~1600nm, λ of 1310nm, 1490nm,1550nm
- Built-in TEC, Thermistor
- RoHs Compliant

Application

- Light Source
- Sensor
- Optical Communication
- Test equipment
- Fiber Optical Gyroscopes



1 Absolution Maximun Ratings (Tc=25°C.unless otherwise specified)

Parameters	Symbol	Min.	Max.	Unit	Test Condition
Laser Chip	I _{FL}	-	600	mA	Forward Current
Reverse Voltage (Laser diode)	V _{RL}	-	2	V	Reverse Current <500uA
Storage Temperature	Tstg	-40	+85	℃	-
Soldering Temperature/Time	-	260/10		℃/S	-
Relative Humidity	RH	-	95	%	Top < 30 ℃
Thermal Electric Cooler	-	-	2	V	Voltage
	-	-	1.5	A	Current
Fiber Yield Strength	-	-	30	nm	
Fiber Bend Radius	-	-	1	kgf	

2 Operating Conditions

Parameters	Symbol	Min.	Max.	Unit	Test Condition
Caser Operating Temperature Range	T _C	- 20	60	℃	-
Power Supply Voltage	V _{CC}	-	5	V	-
Relative Humidity	R _H	-	80	%	-
TEC Cooler Current	I _{cooler}	-2	2	A	ΔT=40K
TEC Voltage	V _{cooler}	-	3.5	V	ΔT=40K

3 Specifications (electrical & optical characteristics)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Operating Current	I _{op}	-	280	600	mA	CW
Thermistor Resistance	R _{th}	9.5	10	10.5	KΩ	25 ℃
Thermoelectric Cooler Current	I _{cooler}	-	-	1000	mA	ΔT=40K
Thermoelectric Cooler Voltage	V _{cooler}	-	-	2	V	ΔT=40K
Spectral Ripple	Δ	-	0.2	0.4	dB	CW, If = I _{op}
Full Width at Half Maximum	FWHM	40	-	-	nm	-





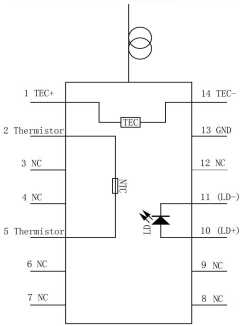
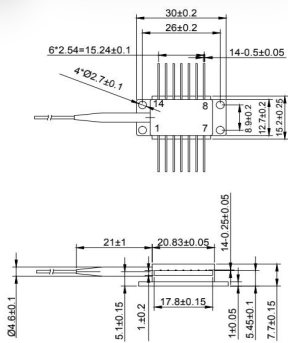
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Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Central Wavelength	λ_C	λ_C-20		λ_C+20	nm	CW
Output Power	Po	-	-	10	mW	CW

- * CWDM DFB wavelength tolerance $\pm 3\text{nm}$.
- * LAN-WDM.MWDM.DWDM wavelength tolerance belongs to their specific properties.
- * 1625nm.1650nm.1654nm wavelength tolerance $\pm 5\text{nm}$.

4 Dimensions(mm) Pin Assignment



 Please let us know your request details before order.
 ** If you have your own Pin Assignment request .
 Kindly share it with us before order .



Customize for you



5 Order Information

GTA9002 series laser 1550nm SLED butterfly laser module

- Please let us know
- 1:output power
 - 2: fiber type
 - 3: connector
 - 4: pin map (If you have your own request,please let us know it.)

For example



GTA900219
 1550nm SLED butterfly laser moudle 1mW.
 SMF FC/APC 1m.

