

★ Super Luminescent Light Emitting Module(14 pins)

GTA9001

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℃.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	Icooler	-2	2	A	$\Delta T=40K$
TEC Voltage	Vcooler	-	3.5	V	$\Delta T=40K$

3 Specifications (electrical & optical characteristics)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Operating Current	Iop	-	280	600	mA	CW
Thermistor Resistance	Rth	9.5	10	10.5	KΩ	25 ℃
Thermoelectric Cooler Current	Icooler	-	-	1000	mA	$\Delta T=40K$
Thermoelectric Cooler Voltage	Vcooler	-	-	2	V	$\Delta T=40K$
Spectral Ripple	Δ	-	0.2	0.4	dB	CW, If = Iop
Full Width at Half Maximum	FWHM	40	-	-	nm	-





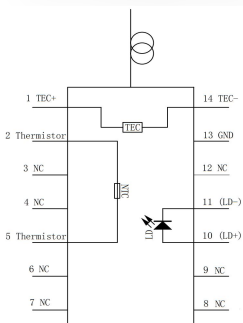
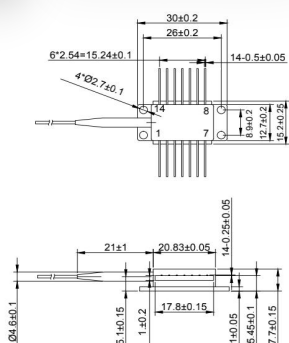
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Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Central Wavelength	λ_c	λ_c-20		λ_c+20	nm	CW
Output Power	Po	-	-	10	mW	CW

- * 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

GTA9001 series laser 1310nm 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



GTA900119

1310nm SLED butterfly laser module 1mW.
SMF FC/APC 1m.

