



## Super Luminescent Light Emitting Diodes Module ( 14 pins )

### Features

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

### Application

- Fiber Optic Gyroscopes
- Light Source
- Sensor
- Optical Communications System
- Test equipment

### Absolute Maximum Ratings (Tc=25°C .unless otherwise specified)

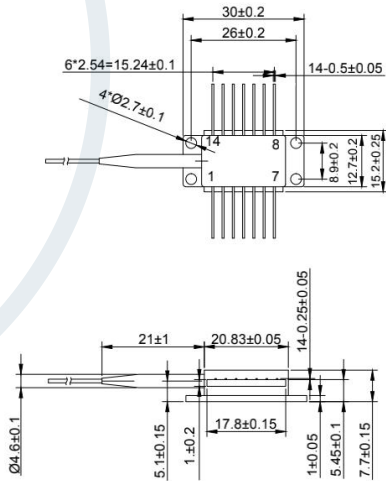
Parameter	Symbol	Min.	Max.	Unit	Test Condition
Storage Temperature	Tstg	-40	+85	°C	-
Operating Temperature	Tc	-20	+70	°C	-
Forward Current	If	-	600	mA	CW

TEC Voltage	$V_c$	-	3.5	V	-
TEC Current	$I_c$	-2	+2	A	-
TEC Set Temperature	$T_s$	10	35	°C	-
Thermistor Temperature	$T_{th}$	-	100	°C	ATC operation
Laser Forward Voltage	$V_f$	-	3	V	-
Laser Reverse Voltage	$V_r$	-	2	V	-
Environmental Operating Humidity	$X_{op}$	-	95	%	Top < 30°C
Environmental Storage Humidity	$X_{st}$	-	95	%	Top < 30°C
Fiber Yield Strength		-	30	nm	-
Fiber Bend Radius		-	1	kgf	-
Lead Soldering Time	$T_{sold}$	260 / 10		°C / Sec	-

## Specifications ( electrical & optical characteristics )

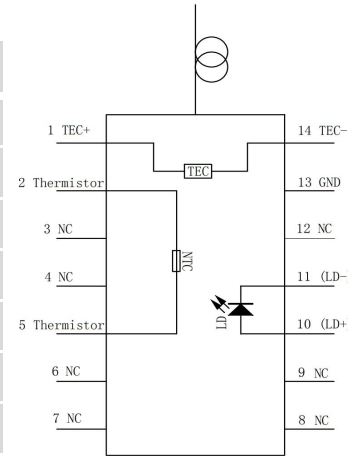
Parameter	Symbol	Min	Typ.	Max.	Unit	Test Conditions
Operating Current	Iop	-	280	500	mA	CW
Thermistor Resistance	Rth	9.5	10	10.5	K $\Omega$	25 $^{\circ}$ C
Thermoelectric Cooler Current	Icooler	-	-	1000	mA	$\Delta$ T=40K
Thermoelectric Cooler Voltage	Vcooler	-	-	2	V	$\Delta$ T=40K
Spectral Ripple	$\Delta$	-	0.2	0.4	dB	CW, If = Iop
Full Width at Half Maximum	FWHM	40	-	-	nm	-
Central Wavelength	$\lambda_c$	$\lambda_c-20$	1310/1550	$\lambda_c+20$	nm	CW
Output Power	Po	1	-	10	mW	CW

## Dimensions(nm)



## Pin Assignment

Pin	Description	Pin	Description
1	TEC (+)	8	NC
2	Thermistor	9	NC
3	NC	10	SLED (+)
4	NC	11	SLED (-)
5	Thermistor	12	NC
6	NC	13	Case
7	NC	14	TEC (-)



## Order Information

### 1550nm SLED GTA9002

Part No.	Description
GTA9002	without connector
GTA90029	FC/APC
GTA90028	FC/PC



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



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