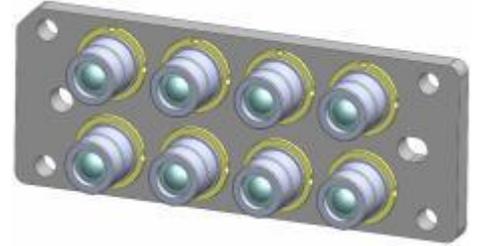


Green Laser Diode Bank

NUGM06T

■ Features

- High Power Multiple Laser Diode (LD) Bank
- 8 Collimator Beams
- No Outgas
- High Heat Dissipation
- High safety structure for prevention of removing LDs



Standard Operating Conditions

- Forward Current: 1.9 A (CW Operation)
- $T_m=65^\circ\text{C}$, ACC(Auto Current Control) Operation

■ Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Ratings	Unit
Forward Current	I_F	2.3 ¹	A
Allowable Reverse Current	$I_R(\text{LD})$	85 ¹	mA
Storage Temperature	T_{stg}	-40 ~ 85	°C
Operating Temperature	T_m	0 ~ 65	°C

¹ Individual LD

■ Initial Electrical/Optical Characteristics of LD Bank

($T_m=22^\circ\text{C}$)

Item	Condition	Symbol	Min	Typ.	Max	Unit
Optical Output Power	$I_F=1.9\text{A}$	P_o	11.7	(13.2)	-	W
Dominant Wavelength	$I_F=1.9\text{A}$	λ_d	520	(525)	530	nm
Forward Voltage ²	$I_F=1.9\text{A}$	V_F	31	(35)	40	V
Beam Pointing Tilt Angle ³	$I_F=1.9\text{A}$	$\Delta\theta$	-	-	0.7	°

² 8LDs series connection

³ Beam Pointing Tilt Angle $\Delta\theta = \sqrt{\Delta\theta_{//}^2 + \Delta\theta_{\perp}^2}$ (Individual LD)

■ Initial Electrical/Optical Characteristics of mounted LD

($T_c=25^\circ\text{C}$)

Item	Condition	Symbol	Min	Typ.	Max	Unit	
Optical Output Power	$I_F=1.9\text{A}$	P_o	-	(1.65)	-	W	
Dominant Wavelength	$I_F=1.9\text{A}$	λ_d	518	(525)	532	nm	
Threshold Current	CW	I_{th}	150	-	500	mA	
Slope Efficiency	CW	η	-	(1.1)	-	W/A	
Forward Voltage	$I_F=1.9\text{A}$	V_F	4.0	-	5.5	V	
Beam Divergence ⁴	Parallel	$I_F=1.9\text{A}$	$\theta_{//}$	0.2	(0.4)	0.6	°
	Perpendicular		θ_{\perp}	-1.0	(0)	1.0	

⁴ Full angle at $1/e^2$ from peak intensity

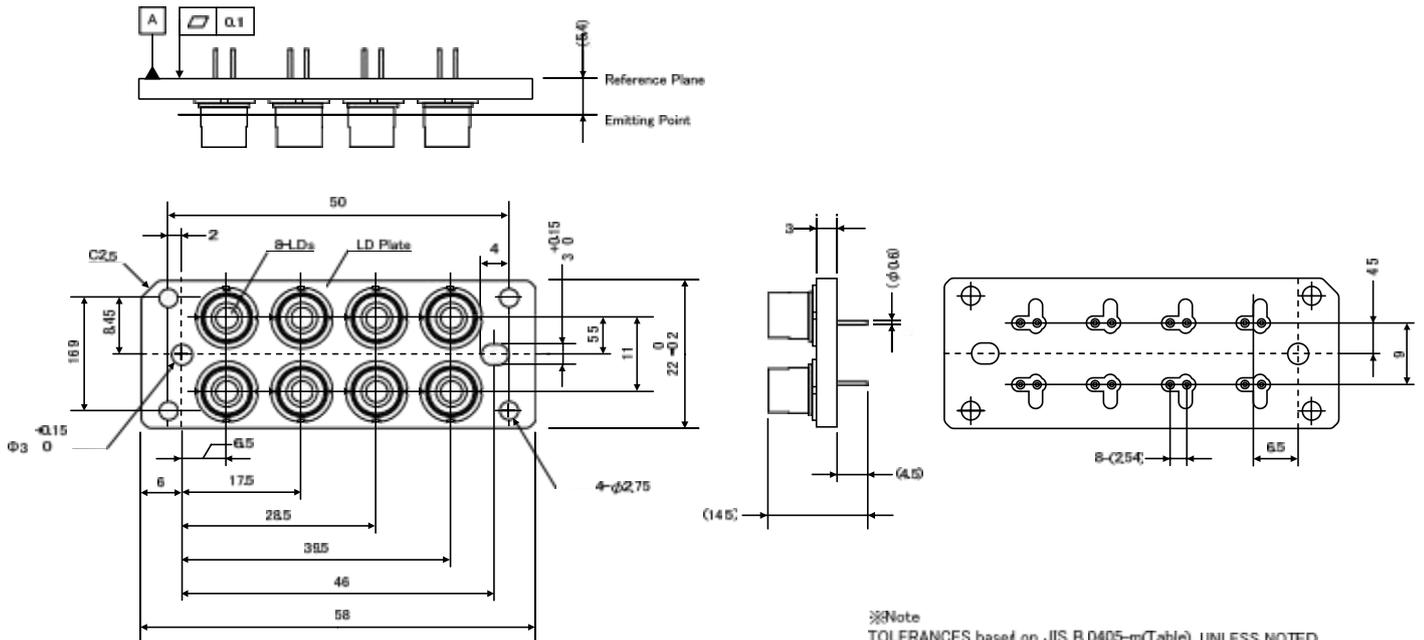
() are reference figures.

All figures in this specification are measured by Nichia's method and may contain measurement deviations.

This model is Test Sample for evaluation or design purpose only. Life time is not guaranteed.

The above specifications are for reference purpose only and subjected to change without prior notice.

Outline Dimensions



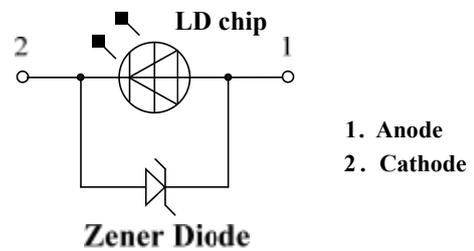
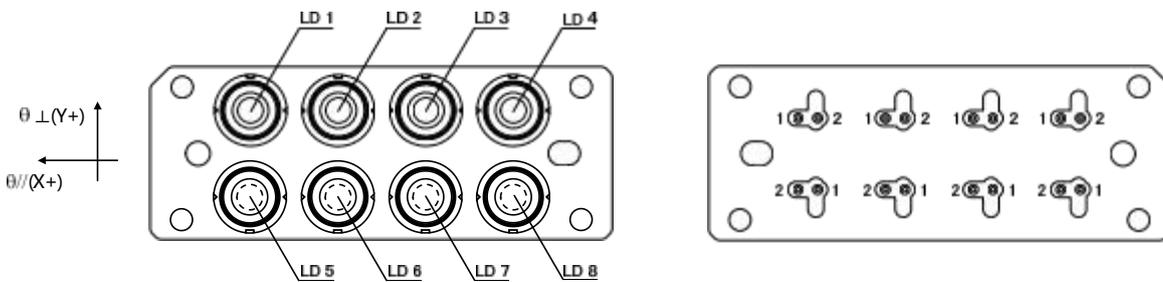
※Note
TOLERANCES based on JIS B 0405-m(Table), UNLESS NOTED

Table, Limits for Linear measures(mm)

Range	0,5 to 3	above 3 to 6	above 6 to 30	above 30 to 120
Tolerance	±0,1	±0,1	±0,2	±0,3

Dimensions are in millimeters
Figures in () are reference purpose only.

LD Position No. & Pin Connection



This model does not have a Photo Diode.
This model has a Zener Diode built in as a protection circuit against static electricity.

