

# NUBM05

## ■ Features

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



## ■ Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Ratings	Unit
Forward Current (T <sub>m</sub> =25°C)	I <sub>f</sub>	3.5 <sup>*1</sup>	A
Allowable Reverse Current (T <sub>m</sub> =25°C)	I <sub>r</sub> (LD)	85 <sup>*1</sup>	mA
Storage Temperature	T <sub>stg</sub>	-40 ~ 85	°C
Operating Temperature	T <sub>m</sub>	0 ~ 65	°C

\*1: Individual LD

## ■ Initial Electrical/Optical Characteristics of LD Bank (T<sub>m</sub>=25°C)

Item	Condition	Symbol	Min	Typ.	Max	Unit
Optical Output Power	I <sub>f</sub> =2.5A	P <sub>o</sub>	28.5	(30)	-	W
Dominant Wavelength	I <sub>f</sub> =2.5A	λ <sub>d</sub>	450	(455)	460	nm
Operating Voltage <sup>*2</sup>	I <sub>f</sub> =2.5A	V <sub>op</sub>	30	-	39	V
Beam Pointing Tilt Angle <sup>*3</sup>	I <sub>f</sub> =2.5A	Δθ	-	-	0.7	deg

\*2: SLDs 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<sub>c</sub>=25°C)

Item	Condition	Symbol	Min	Typ.	Max	Unit	
Optical Output Power	I <sub>f</sub> =2.5A	P <sub>o</sub>	-	(3.75)	-	W	
Dominant Wavelength	I <sub>f</sub> =2.5A	λ <sub>d</sub>	448	(455)	462	nm	
Threshold Current	CW	I <sub>th</sub>	220	-	420	mA	
Slope Efficiency	CW	η	-	(1.7)	-	W/A	
Operating Voltage	I <sub>f</sub> =2.5A	V <sub>op</sub>	3.7	-	4.9	V	
Beam Divergence <sup>*4</sup>	Parallel	I <sub>f</sub> =2.5A	θ <sub>//</sub>	0.25	(0.40)	0.55	deg
	Perpendicular		θ <sub>⊥</sub>	-0.8	(0)	0.8	

\*4: Full angle at 1/e<sup>2</sup> from peak intensity

( ) are reference figures.

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

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

