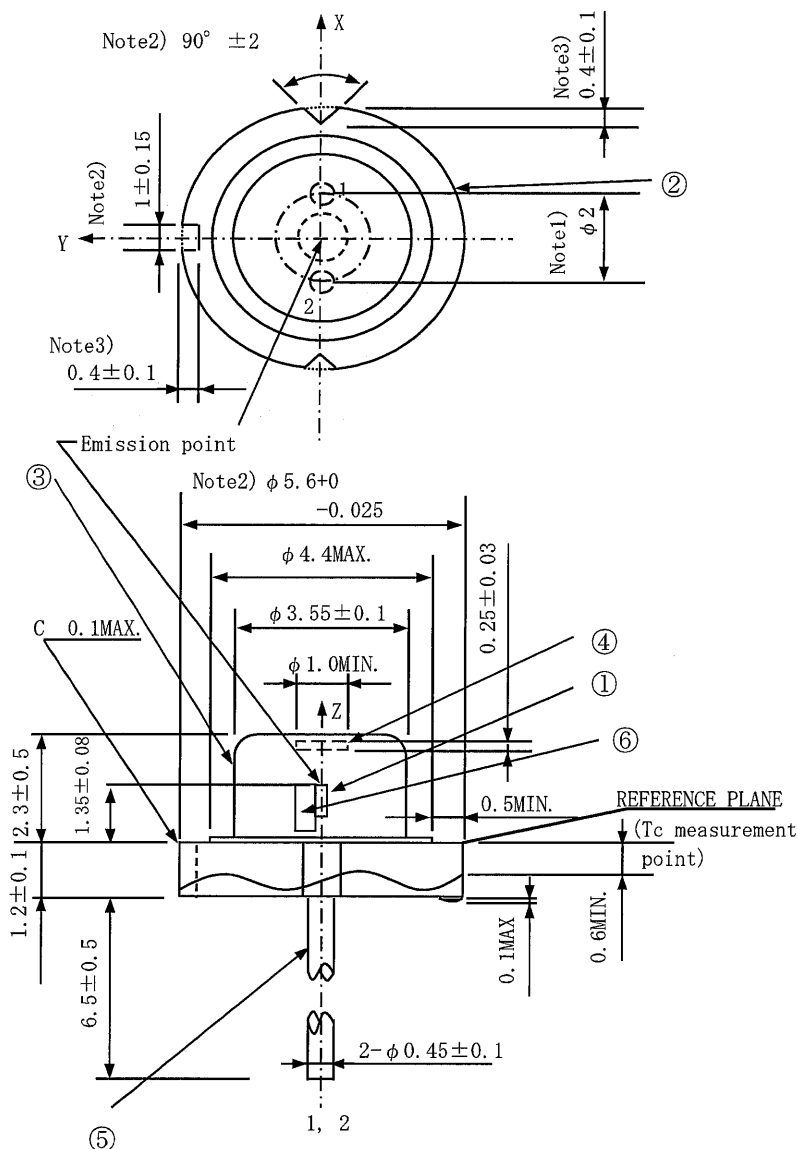
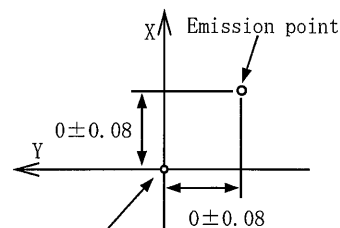


1.Outline dimensions and Terminal connections

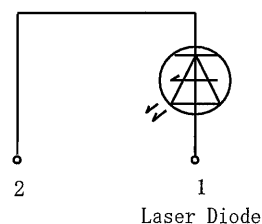


Enlarged drawing
around the emission point



Center of the imaginary circle
which goes through the three
point around the stem

Terminal
connections



Mass of the product :

0.32g (reference value)

Marking

Position : Top or side of a cap

Printed contents : T.B.D.

Note 1) Dimension of the bottom of leads.

Note 2) These dimensions are valid only in the range of 0 ~ 0.6mm
below from the reference plane.

Note 3) These dimensions are defined from the imaginary circle which goes through the three
points around the stem to the bottom of cut off parts.

GENERAL TOLERANCES ± 0.2

UNIT:mm

No.	Component	Material	Finish
①	Laser Diode Chip	InAlGaN	-
②	Stem	Fe + Cu	Gold-plated
③	Cap	45Alloy	Nickel-plated
④	Window glass	Borosilicated glass	-
⑤	Lead pins	Kovar	Gold-plated
⑥	Submount / Solder	AlN / AuSn or Ag paste	Gold-plated

2. Ratings and Characteristics

2-1 Absolute Maximum Ratings

(Tc=25°C (Note 1))

Parameter	Symbol	Value	Unit
Optical power output (CW)	Po	700	mW
Reverse voltage	Vr1	2	V
Operating temperature (Case temperature)	Top(c)	0 ~ +30	°C
Storage temperature	Tstg	-40 ~ +85	°C
Soldering temperature (Note 2)	Tsld	350	°C

(Note 1) Tc : Case temperature (Tc measurement point is refer to P1 drawing.)

(Note 2) Soldering temperature means soldering iron tip temperature (The power 20W) while soldering.

Soldering position is 1.6mm apart from bottom edge of the case. (Immersion time: ≤3s)

2-2 Electro-optical Characteristics

(Tc=25°C (Note 1))

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Threshold current	Ith	-	-	120	TBD	A
Operating current	Iop	Po=600mW	-	430	TBD	A
Operating voltage	Vop		-	4.4	TBD	V
Wavelength	λp		400	405	410	nm
1/e ² Intensity Angle (Parallel) (Note 3, 5)	$\theta \parallel$		-	14	-	°
1/e ² Intensity Angle (Perpendicular) (Note 3, 5)	$\theta \perp$		TBD	38	TBD	°
Misalignment angle (Parallel) (Note 4, 5)	$\Delta \theta \parallel$		-5	0	5	°
Misalignment angle (Perpendicular) (Note 4, 5)	$\Delta \theta \perp$		-5	0	5	°
Differential efficiency	ηd	$\frac{400mW}{I(600mW) - I(200mW)}$	TBD	2.0	-	W/A

(Note 1) Initial value, Continuous Wave Operation

(Note 2) Tc:Case temperature

(Note 3) Full angle of 13.5%(≒1/e²) peak intensity(Note 4) Misalignment angle of 13.5%(≒1/e²) peak intensity

(Note 5) Parallel to the junction plane(X-Z plane)

Perpendicular to the junction plane(Y-Z plane)