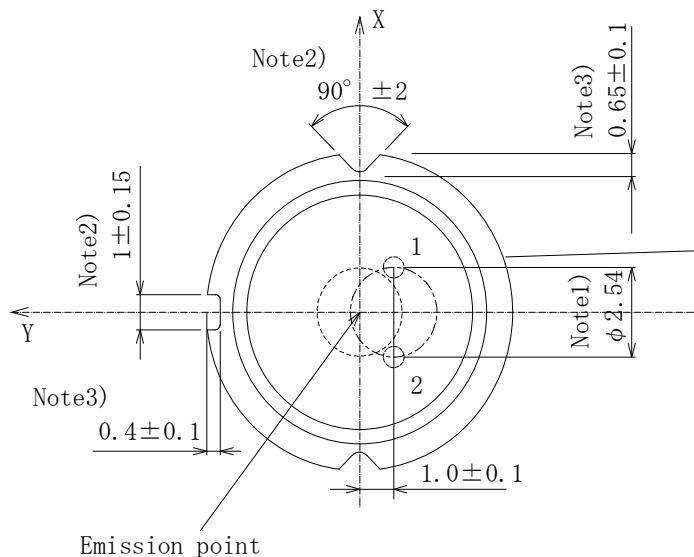
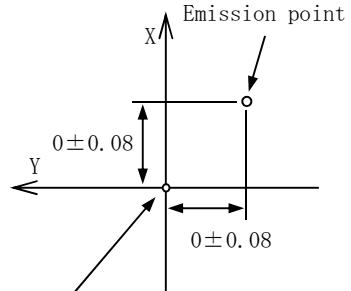


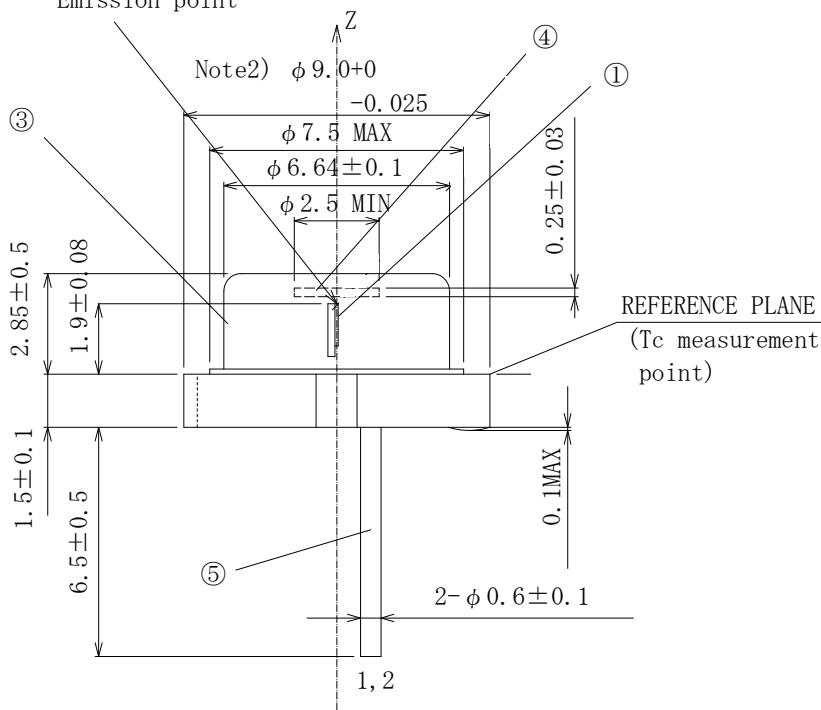
2. Outline dimensions and Terminal connections



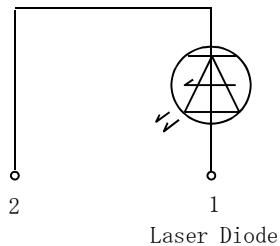
Enlarged drawing
around the emission point



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



Terminal connections



Mass of the product :
1.13g (reference value)

Note 1) Dimension of the bottom of leads.

Note 2) These dimensions are valid only in the range of $0 \sim 0.75\text{mm}$ 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

UNIT : mm			
No.	Component	Material	Finish
①	Laser Diode Chip	InAlGaN	-
②	Stem	Fe, Cu	Gold-plated
③	Cap	45 alloy	Nickel+Pd plated
④	Window glass	Borosilicated glass	-
⑤	Lead pins	Kovar	Gold-plated

3. Ratings and Characteristics

3-1 Absolute Maximum Ratings

(Tc=25°C (Note 1))

Parameter	Symbol	Value	Unit
Operating current (CW)	Iop	1.4	A
Reverse voltage	Vr1	2	V
Operating temperature (Case temperature)	Top(c)	0 ~ +60	°C
Storage temperature	Tstg	-40 ~ +85	°C
Soldering temperature (Note 2)	Ts1d	350	°C

(Note 1) Tc : Case temperature (Tc measurement point is refer to P.2 drawing.)

(Note 2) Soldering temperature means soldering iron tip temperature while soldering.

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

3-2 Electro-optical Characteristics (Note 1)

(Tc=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Threshold current	Ith	Po=0.6W	-	-	0.22	0.30
Operating current (CW)	Iop		-	1.1	1.39	A
Operating voltage	Vop		-	5.2	6.2	V
Wavelength (Note 4)	λ_p		510	520	530	nm
Beam divergence angle(Parallel) (Note 2, 3)	$\theta //$		5	13	20	°
Beam divergence angle(Perpendicular) (Note 2, 3)	$\theta \perp$		35	45	55	°
Misalignment angle (Parallel) (Note 3)	$\Delta \theta //$		-5	-	5	°
Misalignment angle (Perpendicular) (Note 3)	$\Delta \theta \perp$		-5	-	5	°
Differential efficiency	η_d		0.45	0.65	-	W/A

(Note 1) Initial value, Continuous Wave Operation

(Note 2) Full width angle at $1/e^2$ of peak intensity

(Note 3) Parallel to the junction plane(X-Z plane)

Perpendicular to the junction plane(Y-Z plane)

(Note 4) It is based on method for measurement of light spectrum analyzer Q8344A

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