

PRELIMINARY

MITSUBISHI LASER DIODES

ML9XX25 SERIES

980nm High Power Laser Diode

TYPE
NAME

ML9xx25 (1480nm High Power LD)

DESCRIPTION

ML9xx25 series are InGaAsP high power laser diodes which provide a stable, single transverse mode oscillation with emission wavelength of 1480nm and standard continuous light output of 200mW .

FEATURES

- High Power (CW 200mW)
 - 1480nm typical emission wavelength
 - High reliability, long operation life
 - MQW*- Fabry - Perot Laser
- * Multiple Quantum Well

APPLICATION

- Er-doped fiber amplifier

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Conditions	Ratings	Unit
P _o	Light output power	CW	220	mW
I _F	Forward current	CW	800	mA
V _R	Reverse voltage	-	2	V
T _c	Case temperature	-	+ 20 ~ +30	deg.C
T _{stg}	Storage temperature	-	- 40 ~+100	deg.C

ELECTRICAL/OPTICAL CHARACTERISTICS (T_c=25deg.C)

Symbol	Parameter	Test conditions	Min.	Typ.	Max	Unit
I _{th}	Threshold current	CW	-	20	40	mA
I _{op}	Operation current	CW,P _o =200mW	-	520	650	mA
V _{op}	Operating voltage	CW,P _o =200mW	-	1.5	2.0	V
λ _c	Center wavelength	CW,P _o =200mW	1460	1475	1490	nm
Δλ	Spectral width (RMS , -20dB)	CW,P _o =200mW, RMS	-	3	10	nm
θ _{//}	Beam divergence angle (parallel)	CW,P _o =200mW	-	25	30	deg.
θ _⊥	Beam divergence angle (perpendicular)	CW,P _o =200mW	-	30	35	deg.

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TYPICAL CHARACTERISTICS

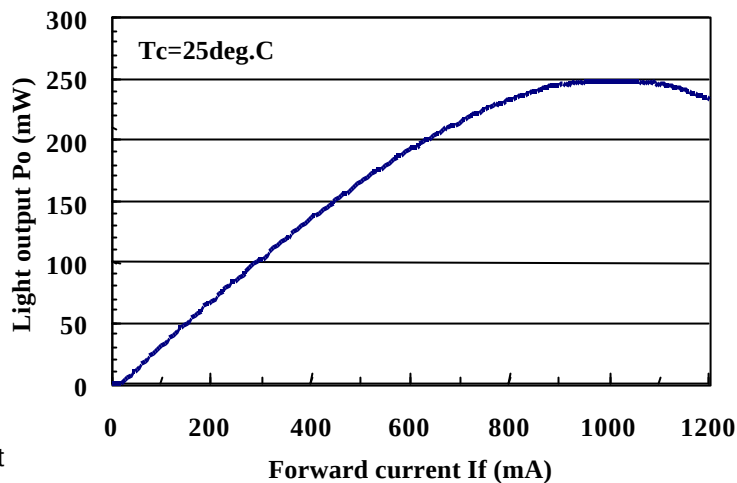


Fig.1 Light output vs. forward current

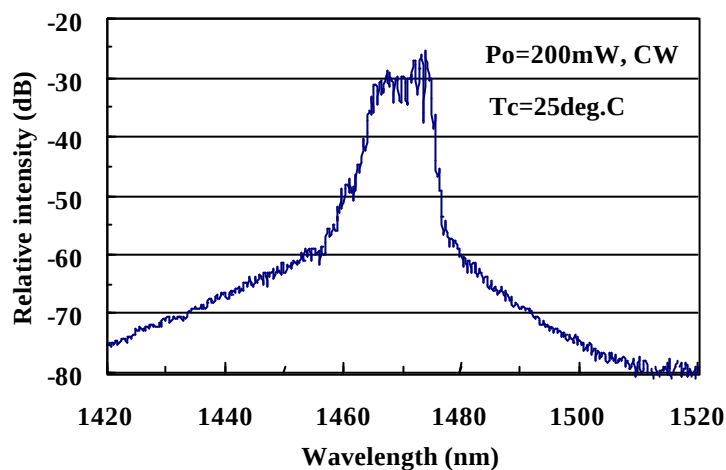


Fig.2 Spectrum

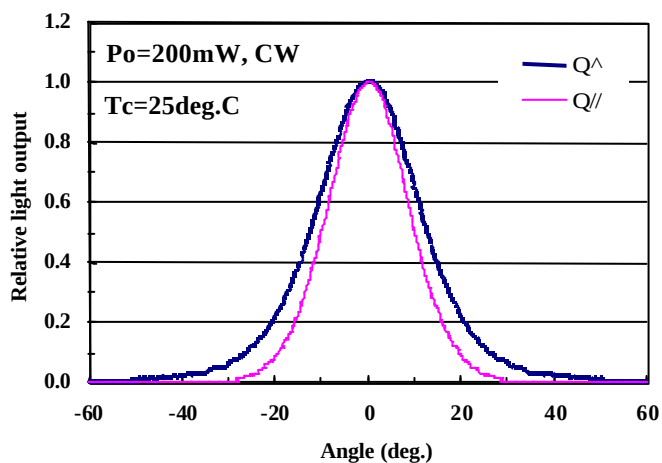


Fig.3 Far field pattern

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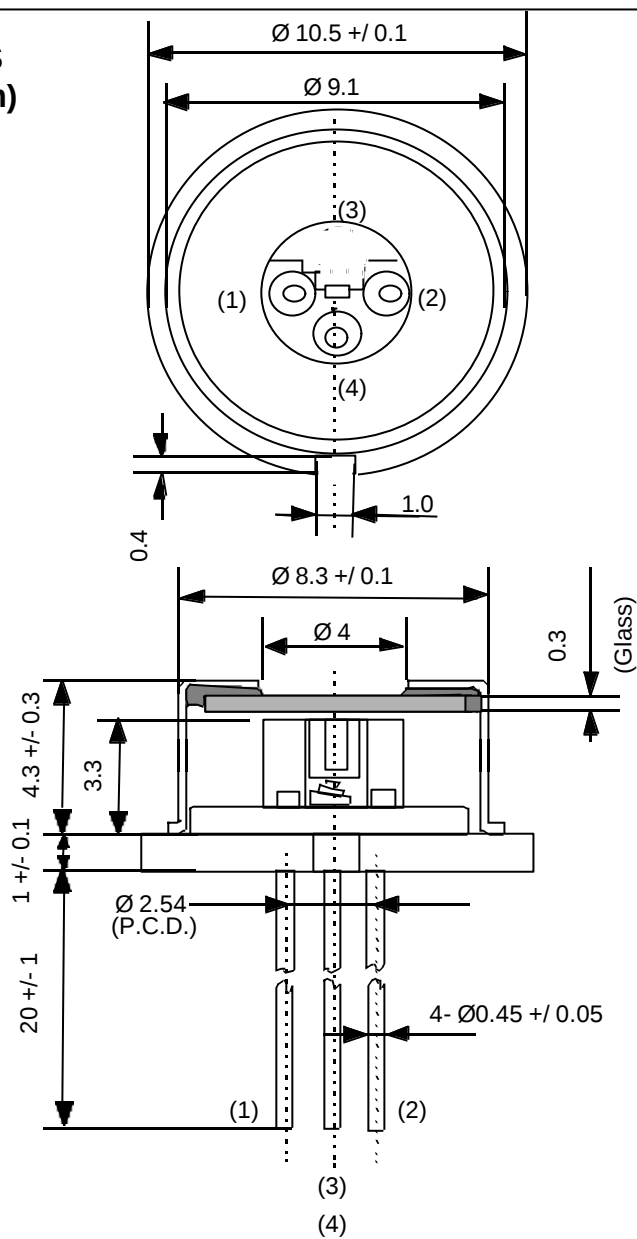
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1480nm High Power Laser Diode

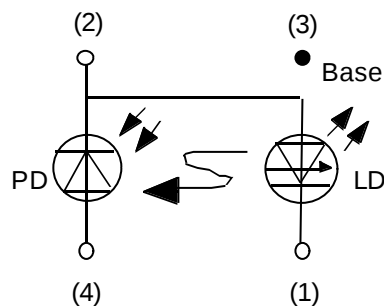
TYPE
NAME

ML961B25S

OUTLINE DRAWINGS (Dimension in mm)



LEAD CONNECTION



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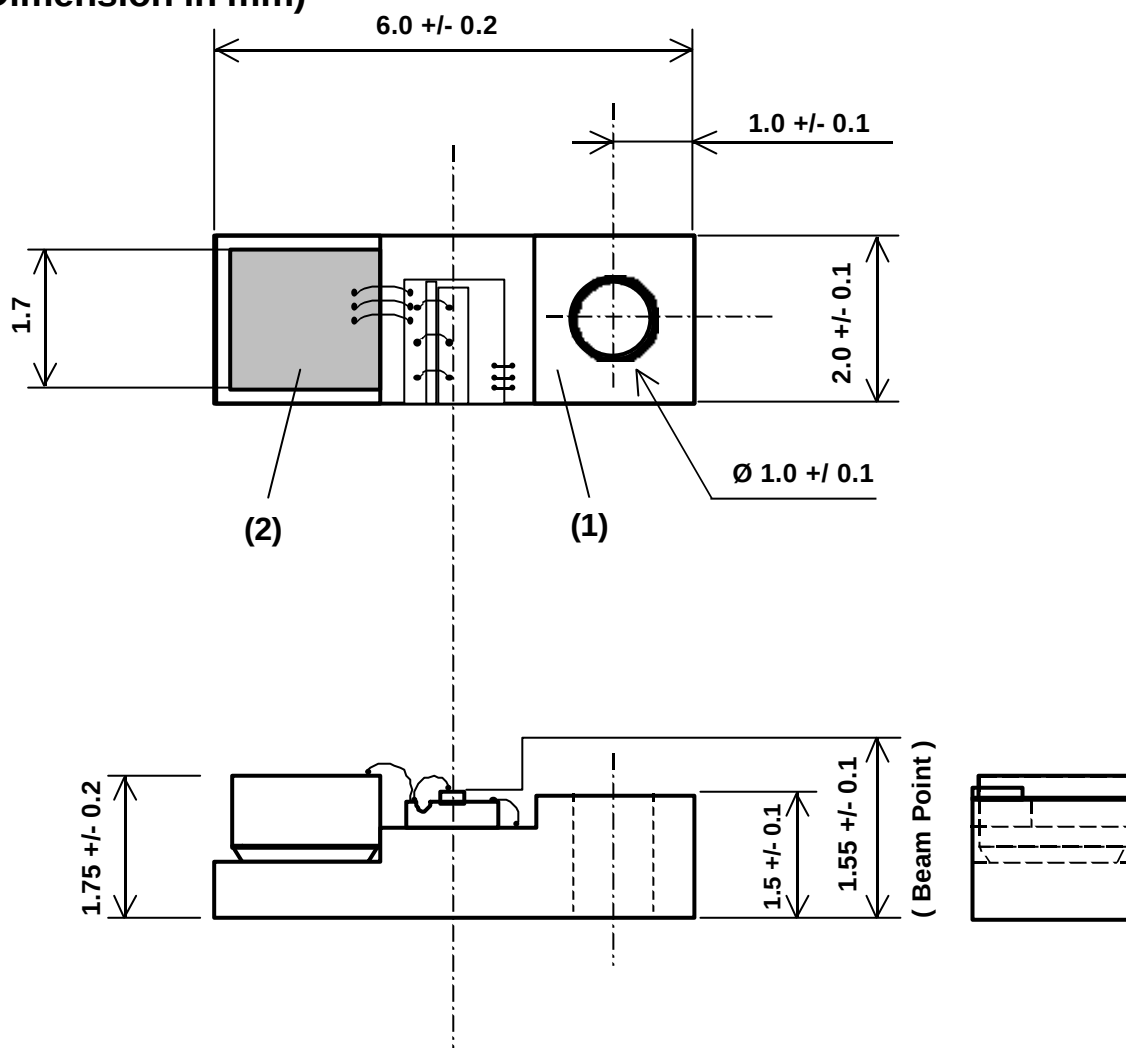
ML9XX25 SERIES

1480nm High Power Laser Diode

TYPE
NAME

ML99225

OUTLINE DRAWINGS (Dimension in mm)



LEAD CONNECTION

