

■ Features

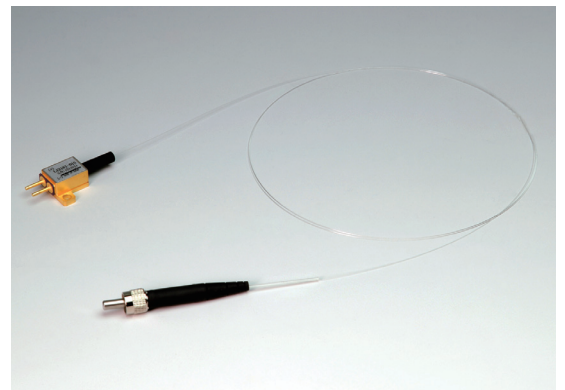
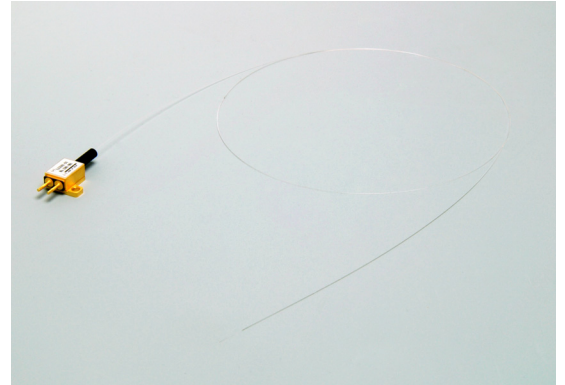
- High power: 10 W
- High efficiency
- 0.15NA, 105 μm fiber core
- Pigtail (2 pin) with SMA (-01S)

■ Applications

- Direct processing
- Pumping source for fiber lasers and solid state lasers
- Medical
- Analysis

■ Outline

This LD was achieved excellent characteristics both high power and high electric-to-optical power conversion efficiency with our unique device structures. In addition, we developed long term reliable fiber output packages. This LDs could be used as for high brightness light sources in wide range of fields as material processing, pumping source for fiber lasers and solid state lasers, medical, analysis.



■ Absolute maximum ratings (except temperature item. $T_{op(c)}=25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Output power	Φ_{ef}	11	W
LD forward current	I_f	12	A
LD reverse voltage	V_r	2	V
Operating temperature ^{*1)}	$T_{op(c)}$	+5 to +35	$^{\circ}\text{C}$
Storage temperature ^{*1)}	T_{stg}	-40 to +85	$^{\circ}\text{C}$

*1) Non condensing

■ Characteristics ($T_{op} = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit	
LD	Output power	Φ_{ef}	10	W
	Operating current	I_{op}	11 (Typ.)	A
	Operating voltage	V_{op}	< 2	V
	Peak emission wavelength ^{*1)}	λ_c	915 ±10	nm
Fiber	Type	-	Multi mode	-
	Core diameter ^{*2)}	-	105	μm
	NA ^{*3)}	-	0.15	-
	Covering diameter ^{*4)}	-	φ0.25	mm

*1) Contact us to ask other wavelength.

*2) MM-S105

*3) 125-15A equivalent

*4) UV cured

Fiber Output Laser Diode L13181 series

Figure 1: Radiant output power vs. Forward current (typ.)

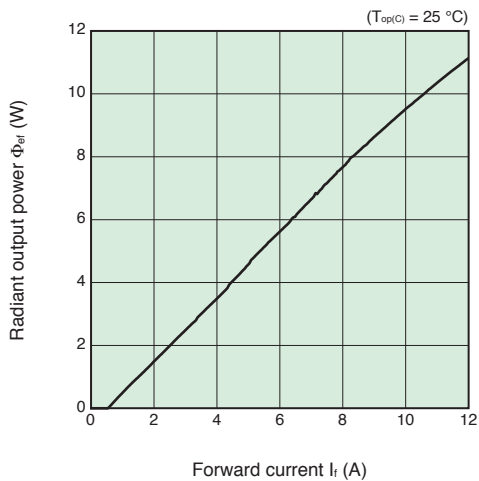


Figure 2: Operating voltage vs. Forward current (type.)

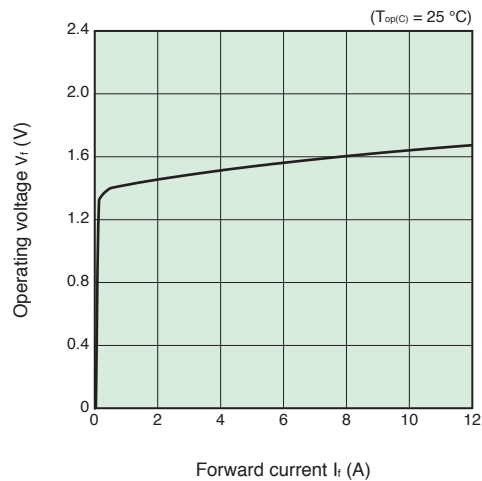
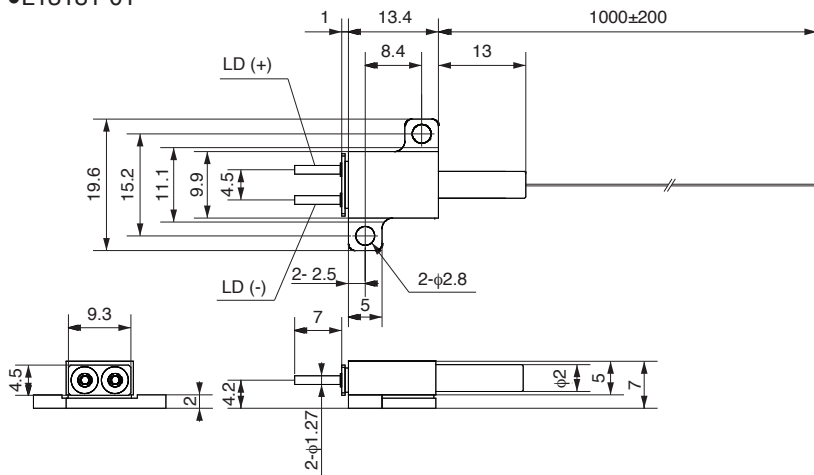
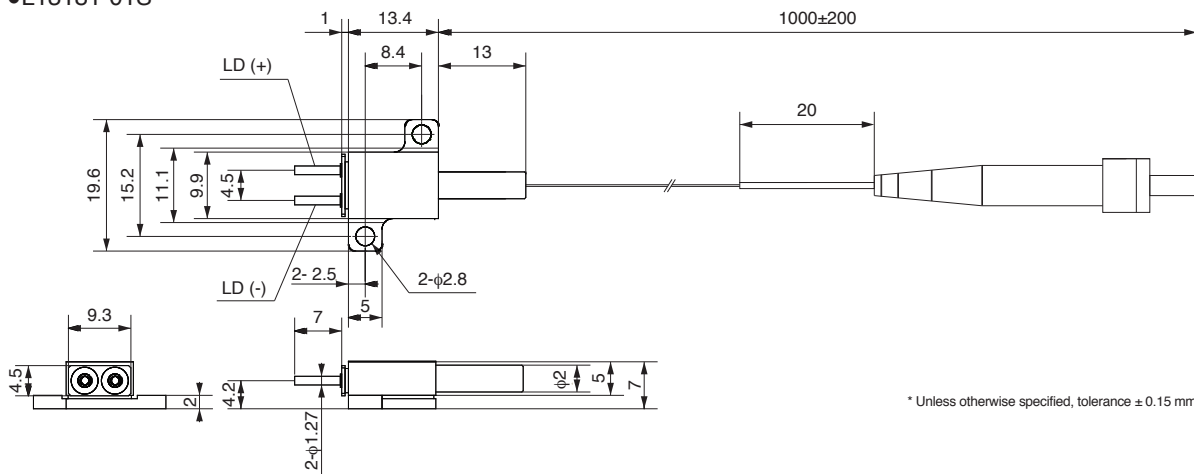


Figure 3: Dimensional outline (unit:mm)

●L13181-01



●L13181-01S



* Unless otherwise specified, tolerance ± 0.15 mm

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