



Laser Diode LT-LD-639-2100M-F91

LT-LD-639-2100 M-F91 is a multimode laser diode with 2.1W CW output power at 639nm. Its beam pattern is linear with $9^\circ \times 1^\circ$ ($\theta_{//} \cdot \theta_{\perp}$). It is supplied in a 9.0mm floating mounted TO-CAN package. The laser diode is suitable for opto-electronic applications.

■ Absolute Maximum Ratings

Parameter	Symbol	Conditions	Value	Unit
Output Optical Power	Po	CW	2.1	W
		lop (Pulse)=3.3A, duty=30%, f=120Hz	2.5	W
Reverse Voltage (Tc=25°C)	Vr (LD)		2	V
Storage Temperature	T _{stg}		-40~+85	°C
Operating Case Temperature	T _c		-10~+55	°C

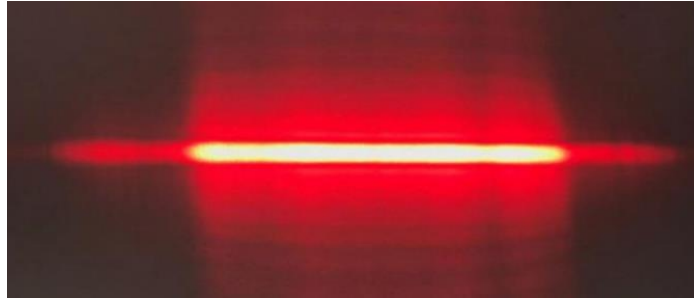
■ Initial Electrical/Optical Characteristics (Tc=25°C)

Parameter	Symbol	Condition	Min	Typ.	Max	Unit	
Threshold Current	I _{th}	CW	-	550	-	mA	
Operating Current	lop	CW,P =2.1W	-	2.25	2.95	A	
Operating Voltage	V _{op}	CW,P =2.1W	-	2.25	-	V	
Peak Wavelength	λ _p	CW,P =2.1W	635	639	644	nm	
Beam Divergence*	Parallel	θ _{//}	CW,P =2.1W	-	9	-	°
	Perpendicular	θ _⊥	CW,P =2.1W	-	1	-	°

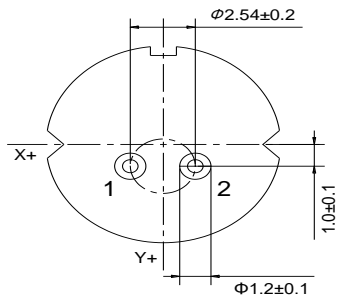
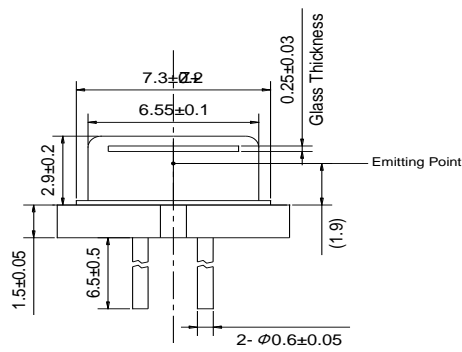
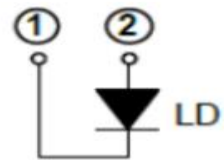
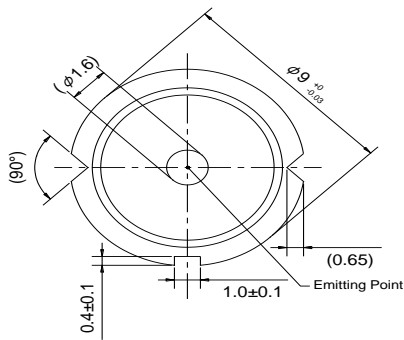
() are reference figures.

* Full angle at 1/e² from peak intensity

■ **Beam Pattern**



■ **Outline Dimension**



Unit: mm

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