



LDM-R-638-0100-00

Key Features:

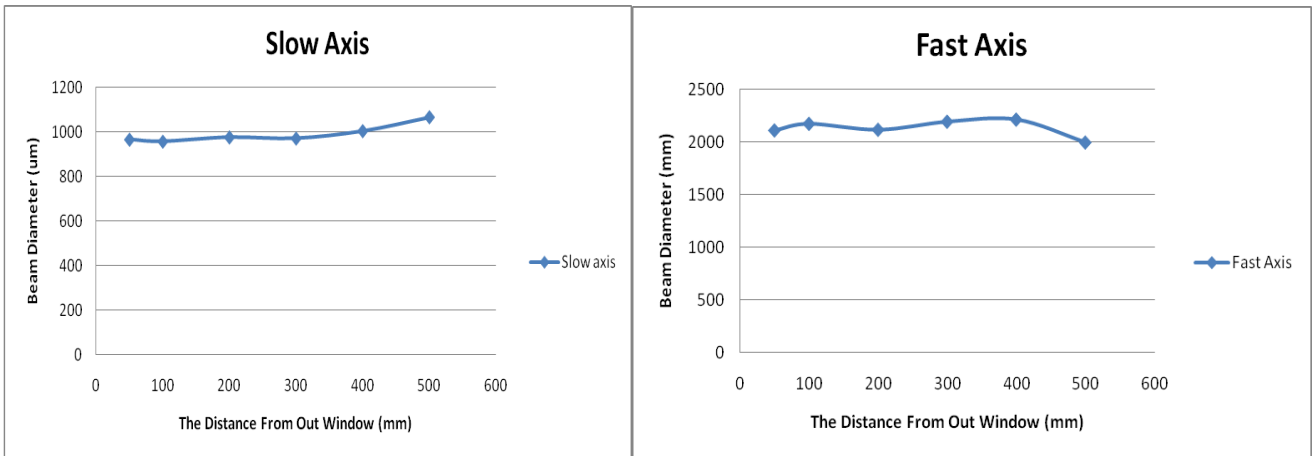
Mini Size
 High Reliability
 Hermetically Sealed Package
 Customized Design Available

Applications:

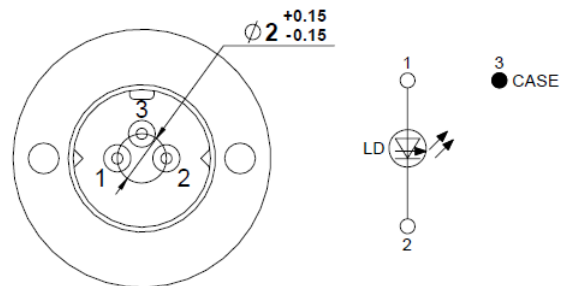
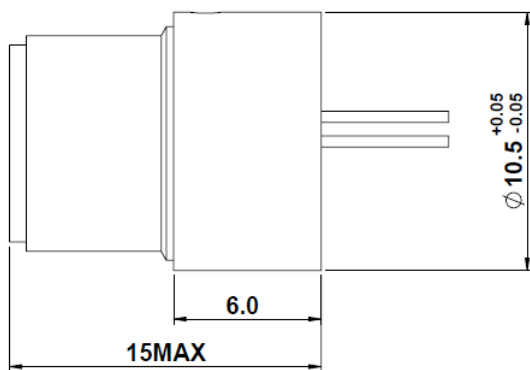
Bio-instrumentation
 Machine Vision

Model Number		LDM-R-638-0100-00			
Optical Parameters		Specs			Conditions
		Min	Typ	Max	
Wavelength		632	638	644	
Output Power		-	100mW	110mW	
Power Stability		-	-	+/-1%	At room temperature
Operating Temperature (Case)		10	-	40	
Beam Divergence		-	-	0.5mrad	Full angle, 1/e ²
Beam Diameter		-	1.0X2.2mm	-	1/e ²
Electrical Parameters					
LD Working Current		100mA	150mA-	200mA	
LD Working Voltage		2.4V	2.7V	3.0V	
Monitor Current		-	-	-	
Threshold current		30mA	50mA	65mA	
Mechanical Parameters					
Laser Head Dimensions(L*W*H)		-	Φ 10.5mm*15mm	-	
Beam Alignment Tolerance	Position(Δr)	-	-	0.5mm	
	Angle	-	-	17.5mrad	
Laser Weight		-	6g	-	
Reliability					
Operating Humidity		-	5%~85% R.H.	-	
Storage Temperature		-	-40 to +85 °C	-	
Shock		-	1500g, 0.5ms, 6 shocks	-	3 axes, 2 shocks/axis
Vibration		-	20~2000Hz, 0.02g ² /Hz	-	3 axes, 1hr/axis
Expected Lifetime (MTTF)		5000hrs	-	-	Room temperature

Typical Output Performance



Dimensions and Pin Configuration (Unit: mm)



PIN Configuration: 1. LD+ 2. COM* 3. N/A