WORLD STAR TECH

WLD-10-905 *Infrared Laser Diode* 905 nm, 10 mW

Features

- 905 nm Infrared Laser
- ⌀5.6 mm TO-CAN package
- Single Transverse Mode Laser
- Low Operating Current

Applications

- Sensing
- Industrial Applications

Absolute Maximum Ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_O	CW	10	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Reverse voltage (PD)	V_{RD}	-	30	V
Case temperature	T_C	-	-10 to +70	˚C
Storage temperature	T_S	-	-40 t0 +85	˚C

Electrical and Optical Characteristics

Parameter	Symbol	Min	Typ.	Max	Unit	Condition
Threshold current	I_{th}	-	8	15	mA	-
Operating current	I_{op}	-	16	25	mA	P_o=10 mW
Operating voltage	V_{op}	1.5	1.7	2.3	V	
Peak wavelength	λ	895	905	915	nm	
Parallel divergence angle	θ∥	6	8	12	Degree	
Perpendicular divergence angle	θ⊥	24	28	32	Degree	
Parallel FFP deviation angle	Δθ∥	-3	0	3	Degree	
Perpendicular FFP deviation angle	Δθ⊥	-3	0	3	Degree	
Slope Efficiency	η	0.8	1.2	1.5	W/A	
Monitor current	I_m	0.1	0.3	0.6	mA	

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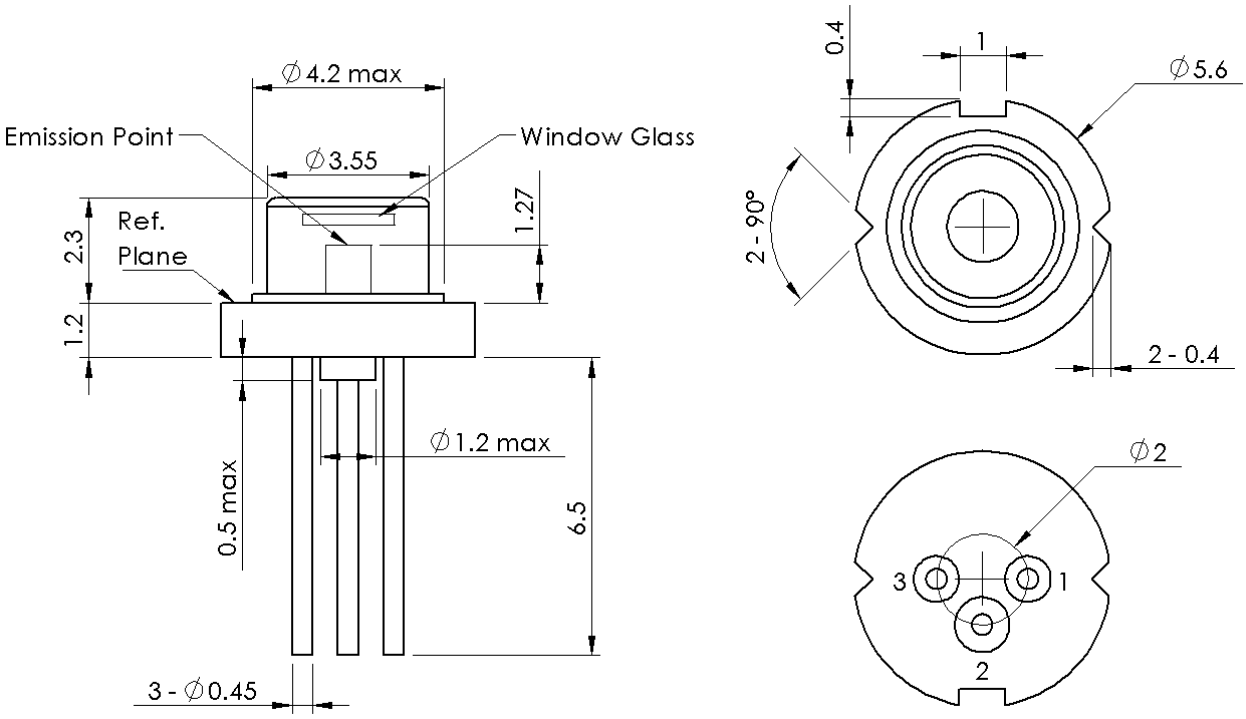
Package Dimensions



Electrical Connections