

Part number: WLD-90-785P



**Absolute Maximum Ratings ( $T_c = 25\text{ }^\circ\text{C}$ )**

Specification	Symbol	Value
Optical Output Power	$P_o$	100 mW
LD Reverse Voltage	$V_{r(LD)}$	2 V
PD Reverse Voltage	$V_{r(PD)}$	30 V
Storage Temperature	$T_S$	-40 to 85 $^\circ\text{C}$
Operating Case Temperature	$T_C$	-10 to 70 $^\circ\text{C}$

**Typical and Measured Characteristics ( $T_c = 25\text{ }^\circ\text{C}$ )**

Specification	Symbol	Min	Typical	Max
Lasing Wavelength*	$\lambda_p$	775 nm	785 nm	795 nm
Optical Power	$P_o$	-	90 mW	100 mW
Threshold Current*	$I_{th}$	-	35 mA	60 mA
Operating Current*	$I_{op}$	-	120 mA	160 mA
Operating Voltage*	$V_{op}$	1.5 V	2.0 V	2.3 V
Slope Efficiency*	$\eta$	0.7 W/A	1.1 W/A	1.4 W/A
Astigmatism	$A_s$	-	-	15 $\mu\text{m}$
Monitor Current	$I_m$	0.3 mA	0.5 mA	1.0 mA
Beam Divergence*	$\theta_{//}$	8 $^\circ$	9 $^\circ$	10 $^\circ$
	$\theta_{\perp}$	15 $^\circ$	16 $^\circ$	20 $^\circ$
Beam Angle Deviation*	$\theta_{//}$	-2 $^\circ$	-	2 $^\circ$
	$\theta_{\perp}$	-2 $^\circ$	-	2 $^\circ$
Emission Point Accuracy	$\Delta X$	-80 $\mu\text{m}$	-	80 $\mu\text{m}$
	$\Delta Y$	-80 $\mu\text{m}$	-	80 $\mu\text{m}$
	$\Delta Z$	-80 $\mu\text{m}$	-	80 $\mu\text{m}$

\* $P_o = 90\text{ mW}$

