

For current pricing, please see our website.

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Optical Amplifiers

488 nm Pigtailed Laser Diode



Available with Single Mode Fiber

See page 1253

$\lambda = 488 \text{ nm}$, $P = 60 \text{ mW}$, Single Mode Thorlabs L488P060MLD

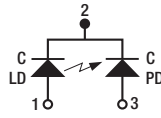


S05LM9 Included

- Ø5.6 mm Package
- 60 mW (Typical) Optical Output Power (CW)
- 0.9 W/A (Typical) Slope Efficiency

Pin Description

- 1 laser anode
- 2 common case (cathode)
- 3 monitor diode anode



PIN CODE B

NEW product

ITEM #	\$	£	€	RMB	DESCRIPTION
L488P060MLD*	CALL	CALL	CALL	CALL	Thorlabs 488 nm, 60 mW

*Ships with S05LM9, an SM05-compatible mount for Ø5.6 mm and Ø9 mm packages

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	80 mW*
LD Reverse Voltage	$V_{R(LD)}$	5 V
PD Reverse Voltage	$V_{R(PD)}$	20 V
Operation Case Temperature	T_{op}	0 to 60 °C
Storage Temperature	T_{stg}	-40 to 85 °C

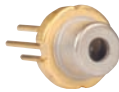
*60 mW Typical

Characteristics ($T_c = 25^\circ\text{C}$, $P = 60 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP	MAX
Lasing Wavelength	λ_p	483 nm	488 nm	493 nm
Threshold Current	I_{th}	–	30 mA	50 mA
Operating Current	I_{op}	–	100 mA	130 mA
Operating Voltage	V_{op}	–	5.6 V	6.2 V
Beam Divergence (FWHM)	$\theta_{//}$	7.0°	10.0°	13.0°
	θ_{\perp}	20.0°	23.5°	27.0°
Slope Efficiency	η_s	0.6 W/A	0.9 W/A	–
Monitor Current	I_m	0.6 mA	1.0 mA	1.4 mA

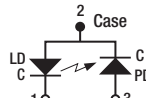
Note: All data are presented as typical unless otherwise specified.

$\lambda = 635 \text{ nm}$, $P = 3 \text{ mW}$, Single Mode Hitachi HL6314MG



Pin Description

- 1 laser cathode
- 2 common case
- 3 monitor diode anode



PIN CODE A

- Ø5.6 mm Package
- AlGaInP Index-Guided MQW Structure
- Single Longitudinal Mode
- Low 8 μm Astigmatism @ 3 mW
- High Polarization Ratio >350:1 @ 3 mW

ITEM #	£*	€*	RMB*
HL6314MG	1-5 PCS	1-5 PCS	1-5 PCS
HL6314MG	£ 23.40	€ 28.28	¥ 259.03

*For quantities over 5 pieces, please call our local office for pricing.

ITEM #	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
HL6314MG	\$ 32.50	\$ 31.53	\$ 30.88	Hitachi 635 nm, 3 mW

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	3 mW
Pulsed Optical Power	$P_{o(pulse)}$	5 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	T_{op}	-10 to 50 °C
Storage Temperature	T_{stg}	-40 to 85 °C

*Pulse Condition: Pulse Width $\leq 1 \mu\text{s}$, Duty $\leq 50\%$

Characteristics ($T_c = 25^\circ\text{C}$, $P = 3 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP	MAX
Lasing Wavelength	λ_p	630 nm	635 nm	640 nm
Threshold Current	I_{th}	–	25 mA	35 mA
Operating Current	I_{op}	–	30 mA	42 mA
Operating Voltage	V_{op}	–	–	2.7 V
Beam Divergence (FWHM)	$\theta_{//}$	6°	8°	10°
	θ_{\perp}	23°	30°	39°
Astigmatism	A_s	–	8 μm	–
Monitor Current	I_m	0.08 mA	0.15 mA	0.40 mA

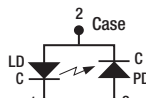
Note: All data are presented as typical unless otherwise specified.

$\lambda = 635 \text{ nm}$, $P = 3 \text{ mW}$, Single Mode Thorlabs L635P003



Pin Description

- 1 laser cathode
- 2 common case
- 3 monitor diode anode



PIN CODE A

- Ø5.6 mm Package
- 0.6 mW/mA (Typical) Slope Efficiency
- Single Transverse Mode
- MOCVD*-Grown with Quantum Well Structures

*Metal-Organic Chemical Vapor Deposition

ITEM #	£*	€*	RMB*
L635P003	1-5 PCS	1-5 PCS	1-5 PCS
L635P003	£ 18.62	€ 22.50	¥ 206.11

*For quantities over 5 pieces, please call our local office for pricing.

ITEM #	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
L635P003	\$ 25.86	\$ 24.05	\$ 23.02	Thorlabs 635 nm, 3 mW

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	5 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	T_{op}	-10 to 50 °C
Storage Temperature	T_{stg}	-40 to 85 °C

*3 mW Typical

Characteristics ($T_c = 25^\circ\text{C}$, $P = 3 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP	MAX
Lasing Wavelength	λ_p	–	635 nm	640 nm
Threshold Current	I_{th}	–	16 mA	26 mA
Operating Current	I_{op}	–	21 mA	36 mA
Operating Voltage	V_{op}	–	2.2 V	2.8 V
Beam Divergence (FWHM)	$\theta_{//}$	5°	7°	12°
	θ_{\perp}	30°	34°	38°
Slope Efficiency	η_s	0.4 mW/mA	0.6 mW/mA	1 mW/mA
Monitor Current	I_m	–	0.2 mA	0.4 mA

Note: All data are presented as typical unless otherwise specified.