

685 nm
& 705 nm
Pigtailed
Laser Diodes

Available with
Single Mode Fiber

See page
1253

$\lambda = 685 \text{ nm}$, $P = 50 \text{ mW}$, Single Mode Opnext HL6750MG

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	55 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	T_c	-10 to 70°C
Storage Temperature	T_{stg}	-40 to 85°C

*50 mW Typical

Characteristics ($T_c = 25^\circ\text{C}$, $P = 50 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP	MAX
Lasing Wavelength	λ_p	675 nm	685 nm	695 nm
Threshold Current	I_{th}	—	30 mA	60 mA
Operating Current	I_{op}	—	75 mA	120 mA
Operating Voltage	V_{op}	—	2.3 V	3.0 V
Beam Divergence (FWHM)	$\theta_{//}$	7°	9°	12°
	$\theta_{\perp}$	18°	21°	25°
Slope Efficiency	η_s	0.8 mW/mA	1.1 mW/mA	1.4 mW/mA
Monitor Current	I_m	0.08 mA	0.15 mA	0.35 mA

Note: All data are presented as typical unless otherwise specified

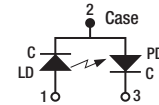

CAUTION:
ELECTROSTATIC
SENSITIVE

NEW
product

- $\varnothing 5.6 \text{ mm}$ Package
- 685 nm (Typical) Wavelength
- 50 mW Output Power (CW)
- 30 mA (Typical) Threshold Current

Pin Description

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



PIN CODE C

ITEM #	£*	€*	RMB*
1-5 PCS	1-5 PCS	1-5 PCS	1-5 PCS
HL6750MG	£ 75.60	€ 91.35	¥ 836.85

*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
HL6750MG	\$ 105.00	\$ 99.75	\$ 95.55	Opnext 685 nm, 50 mW

$\lambda = 690 \text{ nm}$, $P = 30 \text{ mW}$, Single Mode Hitachi HL6738MG

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

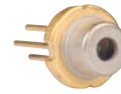
CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	35 mW*
Optical Output Power (Pulse)	$P_o(\text{pulse})$	50 mW**
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	T_c	-10 to 70°C
Storage Temperature	T_{stg}	-40 to 85°C

*30 mW Typical **Pulse Width = 100 ns, Duty Cycle = 50%.

Characteristics ($T_c = 25^\circ\text{C}$, $P = 30 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP	MAX
Lasing Wavelength	λ_p	680 nm	690 nm	695 nm
Threshold Current	I_{th}	30 mA	45 mA	70 mA
Operating Voltage	V_{op}	2.1 V	2.5 V	2.8 V
Beam Divergence (FWHM)	$\theta_{//}$	7°	8.5°	10.5°
	$\theta_{\perp}$	17°	19°	23°
Slope Efficiency	η_s	0.5 mW/mA	0.7 mW/mA	0.9 mW/mA
Monitor Current	I_m	0.02 mA	0.1 mA	0.45 mA

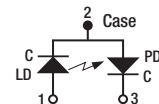
Note: All data are presented as typical unless otherwise specified

CAUTION:
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SENSITIVE


- $\varnothing 5.6 \text{ mm}$ Package
- AlGaInP Structure
- $6 \mu\text{m}$ (Typical) Astigmatism @ 5 mW
- High Operating Temperature (70°C)

Pin Description

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



PIN CODE C

ITEM #	£*	€*	RMB*
1-5 PCS	1-5 PCS	1-5 PCS	1-5 PCS
HL6738MG	£ 40.90	€ 49.42	¥ 452.70

*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
HL6738MG	\$ 56.80	\$ 55.10	\$ 53.96	Hitachi 690 nm, 35 mW

$\lambda = 705 \text{ nm}$, $P = 40 \text{ mW}$, Single Mode Hitachi HL7001MG

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

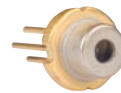
CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	50 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	T_c	-10 to 60°C
Storage Temperature	T_{stg}	-40 to 85°C

*40 mW Typical

Characteristics ($T_c = 25^\circ\text{C}$, $P = 40 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP	MAX
Lasing Wavelength	λ_p	695 nm	705 nm	715 nm
Threshold Current	I_{th}	—	30 mA	60 mA
Operating Current	I_{op}	—	75 mA	100 mA
Operating Voltage	V_{op}	—	2.5 V	—
Beam Divergence (FWHM)	$\theta_{//}$	7°	9°	14°
	$\theta_{\perp}$	14°	18°	25°
Monitor Current	I_m	0.15 mA	0.30 mA	0.60 mA

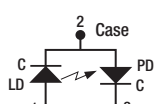
Note: All data are presented as typical unless otherwise specified

CAUTION:
ELECTROSTATIC
SENSITIVE


- $\varnothing 5.6 \text{ mm}$ Package
- InGaAsP Structure
- Single Longitudinal Mode
- Suitable for Medical Sensor Applications

Pin Description

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



PIN CODE C

ITEM #	£*	€*	RMB*
1-5 PCS	1-5 PCS	1-5 PCS	1-5 PCS
HL7001MG	£ 515.45	€ 622.84	¥ 5,705.73

*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
HL7001MG	\$ 715.90	\$ 680.10	\$ 644.31	Hitachi 705 nm, 40 mW