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Find the *Melles Griot 05-LHP-211-375* at our website: **Click *HERE***

Laser Diode (Visible) He-Ne Lasers

LDU33
05-LHP

LDU33

RoHS **Catalog Code** W5001

Low ripple and noise laser diode module and power supply. Aspheric lens premounted and suitable for either a collimated beam or adjustable focus beam, and compact for adequate OEM.



- Easy adjustment of collimated beam size by using helicoid focusing ring.
- High quality APC power supply allows quick start and stable output.
- User friendly and easy to mount on adjustable holders.

Common Specifications	
Beam Divergence	<1mrad
Output Stability	<3%
Temperature Control	None
Laser Classes	3R
Input Voltage	100VAC
Head Weight [kg]	about 0.15
Weight of Power Supply [kg]	about 0.3

Guide

- ▶ For custom wavelengths, outputs and modulation, contact our Sales Division for more information.
- ▶ Can be mounted with the laser mount (MHG-20LDU) for the kinematic mirror holder. [WEB Reference](#) [Catalog Code](#) W4005

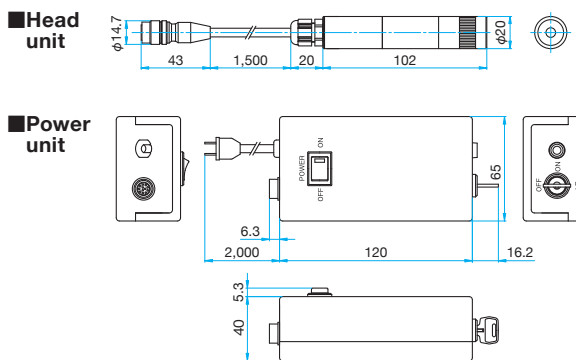
Attention

- ▶ Power supply voltage for the 405nm model is 9V.

Part Number	Wavelength [nm]	CW Output [mW]	Beam Diameter [mm]	Drive Voltage [V]
LDU33-405-3.5	405	3.5	about 2x1	9
LDU33-635-4.5	635	4.5	about 5x2	5
LDU33-670-4.5	670	4.5	about 5x2	5
LDU33-785-4.5	785	4.5	about 5x2	5

Outline Drawing

(Units: mm)



05-LHP

Catalog Code W5002



Standard He-Ne laser, designed in aluminum housing, consists of a laser head with oscillation wavelength of 632.8nm, a laser tube, ballast resistor and electrical wiring.

- 1.8 meter length cable connected.
- Compliance with the provisions of CDRH (U.S. Safety Standard).

Guide

- ▶ Mounted on Cylindrical Laser Mounts (LAH) and Adjustable Laser Holders (LAHU-A) . [WEB Reference](#) [Catalog Code](#) W4029
- ▶ A general service life is one year or 10,000 hours.
- ▶ Contact our Sales Division for random polarization.

Attention

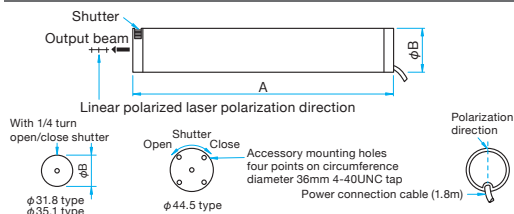
- ▶ As imported products, prices and lead times are subject to change. [Reference](#) H007

Common Specifications

Beam Quality	M ² : <1.05	
Wavelength	632.8nm	
Transverse Mode	TEM ₀₀	
Centrality of Beam	Angular error	<1mrad
	Position	±0.25mm
Long Term Drift	±2.5% (at 8 hours)	
Noise (RMS)	<0.5%	
Noise Frequency	30Hz – 10MHz	
Power Voltage	100VAC, 115VAC, or 230VAC±10%	
Input Frequency	50 – 60Hz	
Shock	25G/11msec	
Operation Temperature Range	-20°C – +40°C	
Storage Temperature Range	-40°C – +80°C	
Operation Humidity	0% – 90% (without condensation)	
Storage Humidity	0% – 100%	

Outline Drawing

(Units: mm)



Linear Polarized Beam Part Number	A [mm]	φB [mm]
05-LHP-213	177.8	φ31.8
05-LHP-211	177.8	φ31.8
05-LHP-111	271.8	φ44.5
05-LHP-121	271.8	φ44.5
05-LHP-151	396.2	φ44.5
05-LHP-171	455.9	φ44.5
05-LHP-991	483.9	φ44.5
05-LHP-925	637.3	φ44.5

Linear Polarized Beam (Extinction Ratio>500:1)

Part Number	CW Output Power TEM ₀₀ [mW]	Beam Diameter 1/e ² [mm]	Beam Divergence [mrad]	Vertical Mode Spacing C/2L [MHz]	Operation Current [mA]	Operation Voltage [V±100]	IEC Class	Power Supply	Weight [kg]
05-LHP-213	0.5	0.46	1.77	1063	4	1,320	2	05-LPL-900-040	0.2
05-LHP-211	0.84	0.46	1.77	1063	4	1,320	3R	05-LPL-900-040	0.2
05-LHP-111	1	0.59	1.35	687	6.5	1,790	3R	05-LPL-911-065	0.4
05-LHP-121	2	0.59	1.35	687	6.5	1,790	3R	05-LPL-911-065	0.4
05-LHP-151	5	0.8	1	438	6.5	2,290	3B	05-LPL-902-065	0.6
05-LHP-171	7	1.02	0.79	373	7	2,650	3B	05-LPL-951-070	0.68
05-LHP-991	10	0.65	1.24	341	6.5	2,640	3B	05-LPL-951-065	0.66
05-LHP-925	17	0.96	0.84	257	7	3,900	3B	05-LPL-951-070	0.8

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Light Sources

05-LPL

Power supply for standard He-Ne laser head (CDRH compliant).



- Compact laser power supply.
- Low ripple, high stability, and constant current.
- Protection circuit can automatically shut down in case of frequent arc discharges, output-terminal open, output-terminal short or extremely low input voltage.

Common Specifications

Input Voltage	100VAC±10%
Input Frequency	50 – 60Hz
Current Ripple (RMS)	<0.71%
Conversion Efficiency	>75%
Delay time of CDRH	3 – 7 secs
Temperature Range	Operation –20°C – +40°C
	Storage –40°C – +80°C
Ambient Humidity	Operation 0% – 90%
	Storage 0% – 100%
Altitude	Operation 0 – 3,000m
	Storage 0 – 5,800m
Shock	25G/11msec

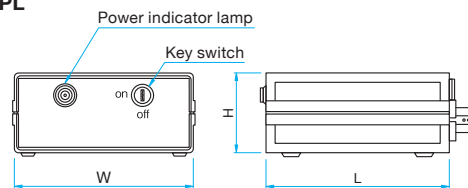
Attention

- ▶ 100VAC voltage intended for use in Japan, if used abroad, contact our Sales Division for more information.
- ▶ As imported products, prices and lead times are subject to change.

Outline Drawing

(Units: mm)

05-LPL



Part Number	Width W [mm]	Length L [mm]	Height H [mm]	Output Current [mA]	Output Voltage [VDC]	Drive Voltage [kVDC]	Weight [kg]
05-LPL-900-040	129	133	61	4	1,100 – 1,500	>8	1
05-LPL-901-040	129	133	61	4	1,450 – 2,050	>8	1
05-LPL-911-065	129	133	61	6.5	1,700 – 2,100	>10	1
05-LPL-902-065	129	133	61	6.5	1,850 – 2,450	>10	1
05-LPL-951-065	161	241	54	6.5	2,500 – 3,100	>11	1.8
05-LPL-951-070	161	241	54	7	2,500 – 4,100	>11	1.8

05-STP

Stabilized He-Ne laser, designed in aluminum housing, consists of a laser head with oscillation wavelength of 632.8nm, a laser tube, ballast resistor and electrical wiring.



- Stabilized wavelength with low frequency fluctuation (10MHz or less).
- 1.8 meter length cable connected.
- Compliance with the provisions of CDRH (U.S. Safety Standard).

Common Specifications

Wavelength	632.8nm
Transverse Mode	TEM ₀₀
Polarization	Linear
Extinction Ratio	>5000:1
Noise (RMS)	0.1% (30Hz – 10MHz)
Frequency Stability	±1.0MHz(1min)/±2.0MHz(1h)/±3.0MHz(8h)
Power Stability	±0.2% (1min/1h/8h)
Temperature Dependence	0.5MHz/°C
Time to Stabilization	<10 minutes
Possible Stabilization Temperature Range	15°C – 30°C
Input Voltage	100VAC±10%
Input Frequency	50 – 60Hz

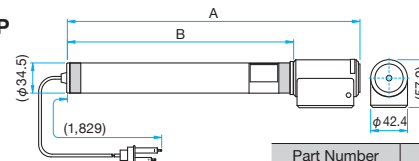
Attention

- ▶ Power supply (05-LPL series: detachable model) is not included, please purchase separately. [Reference](#) H007
- ▶ As imported products, prices and lead times are subject to change.

Outline Drawing

(Units: mm)

05-STP



Part Number	A	B
05-STP-910	259.1	176.8
05-STP-912	302	219.7

Part Number	CW Output Power TEM ₀₀ [mW]	Beam Diameter 1/e ² [mm]	Beam Divergence [mrad]	Operation Current [mA]	Operation Voltage [V±100]	IEC Class	Power Supply
05-STP-910	0.5 – 0.95	0.48	1.7	4	1,220	2	05-LPL-900-040
05-STP-912	1	0.54	1.5	4	1,600	3R	05-LPL-901-040

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