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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

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Opto-Mechanics
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Light Sources

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

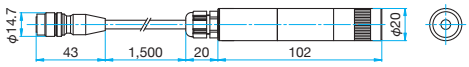
Attention

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

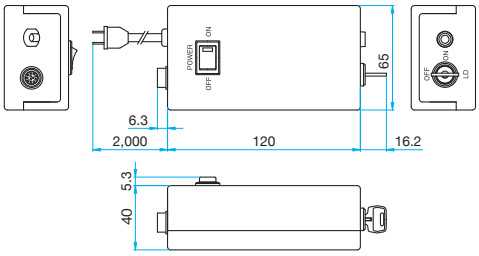
Part Number	Wavelength [nm]	CW Output [mW]	Beam Diameter [mm]	Drive Voltage [V]
LDU33-405-3.5	405	3.5	about 2×1	9
LDU33-635-4.5	635	4.5	about 5×2	5
LDU33-670-4.5	670	4.5	about 5×2	5
LDU33-785-4.5	785	4.5	about 5×2	5

Outline Drawing (Units: mm)

■Head unit



■Power unit



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

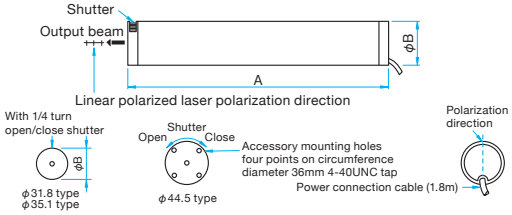
- Mounted on Cylindrical Laser Mounts (LAH) and Adjustable Laser Holders (LAHU-A) . WEB Reference Catalog Code W4029
- A general service life is one year or 10,000 hours.
- Contact our Sales Division for random polarization.

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

05-LPL

Catalog Code W5003

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

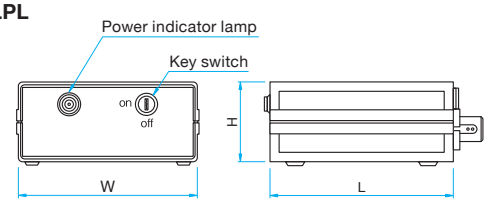
Input Voltage		100VAC±10%
Input Frequency		50 – 60Hz
Current Ripple (RMS)		<0.71%
Conversion Efficiency		>75%
Delay time of CDRH		3 – 7 secs
Temperature Range	Operation	–20°C – +40°C
	Storage	–40°C – +80°C
Ambient Humidity	Operation	0% – 90%
	Storage	0% – 100%
Altitude	Operation	0 – 3,000m
	Storage	0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

Catalog Code W5004

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

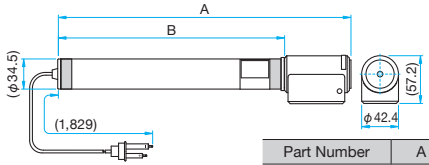
Wavelength	632.8nm
Transverse Mode	TEM_{00}
Polarization	Linear
Extinction Ratio	>5000:1
Noise (RMS)	0.1% (30Hz – 10MHz)
Frequency Stability	±1.0MHz(1min)/±2.0MHz(1h)/±3.0MHz(8h)
Power Stability	±0.2% (1min/1h/8h)
Temperature Dependence	0.5MHz/°C
Time to Stabilization	<10 minutes
Possible Stabilization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