LUXA

DFB Series Laser Sources

Test Light Sources

A distributed feedback laser provides narrowband optical output. Choose the wavelength configuration before comparing output power and wavelength specifications.



Technical specifications

1064 nm module

Operating wavelength (nm)	1063 to 1065 (Typical 1064)
Optical output power (mW)	20 (Typical)/ 50 (Maximum)
Linewidth (MHz)	0.1 to 3 (Optional 1 MHz)
Side-mode suppression ratio (dB)	30 to 45 (Typical 45)
Relative intensity noise (dB/Hz)	-150 (Typical)/ -140 (Maximum)
Power stability	±0.005 (dB/5min)/ ±0.01 (dB/8h)
Output isolation (dB)	≥30
Overall dimensions L×W×H	320×220×90 mm (Benchtop)/ 80×100×24 mm (Module)

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Technical specifications

1550 nm module

Operating wavelength (nm)	1547 to 1560
Optical output power (mW)	10 to 100 (Typical 20)
Linewidth (MHz)	1 (Typical)
Side-mode suppression ratio (dB)	30 to 35 (Typical 35)
Optical isolation (dB)	30 to 35
Relative intensity noise (dB/Hz)	≤-150
Polarization extinction ratio (dB)	15 to 20 (PM fiber coupling)
Power stability	±0.005 (dB/5min)/ ±0.01 (dB/8h)

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Technical specifications

1653 nm gas sensing module

Operating wavelength (nm)	1640 to 1660 (Typical 1653, Center wavelength Customizable)
Optical output power (dBm)	4 to 12 (Typical 6)
3 dB Spectral width (MHz)	≤2
Side-mode suppression ratio (dB)	30 to 40 (Typical 40)
Relative intensity noise (dB/Hz)	-160 (Typical)/ -150 (Maximum)
Power stability	±0.005 (dB/5min)/ ±0.01 (dB/8h)
Output isolation (dB)	≥30
Overall dimensions L×W×H	320×220×90 mm (Benchtop)/ 80×100×24 mm (Module)

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Technical specifications

2 μm module

Operating wavelength (nm)	1980 to 2050 (Typical 2020, Center wavelength Customizable)
Optical output power (dBm)	3 to 7
Linewidth (MHz)	≤2
Side-mode suppression ratio (dB)	30 to 40 (Typical 40)
Relative intensity noise (dB/Hz)	-160 (Typical)/ -150 (Maximum)
Power stability	±0.005 (dB/5min)/ ±0.01 (dB/8h)
Output isolation (dB)	≥30
Overall dimensions L×W×H	320×220×90 mm (Benchtop)/ 80×100×24 mm (Module)

DFB Series Laser Sources

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Technical specifications

1064 nm laser source

Operating wavelength (nm)	1064
Output power (mW)	10 to 5000
Short-term stability 15min (dB)	≤0.02
Long-term stability 8h (dB)	≤0.05
Fiber type	HI-1060
Fiber output termination	FC/APC
Operating temperature (°C)	-5 to +55
Storage temperature (°C)	-40 to +85

DFB Series Laser Sources

Test Light Sources

A distributed feedback laser provides narrowband optical output. Choose the wavelength configuration before comparing output power and wavelength specifications.



Technical specifications

1 MHz configuration

Operating wavelength (Customizable, nm)	1530 to 1563
Output power (mW)	10 to 5000
Short-term stability 15min (dB)	≤0.02
Long-term stability 8h (dB)	≤0.1
Fiber type	SMF-28e / PM Fiber
Fiber output termination	FC/APC
Operating temperature (°C)	-5 to +55
Storage temperature (°C)	-40 to +85