

Specification Sheet

Ultralasers, Inc

MSL-III-785L/1~80mW

SPECIFICATIONS



SINGLE LONGITUDINAL MODE INFRARED DIODE LASER AT 785nm

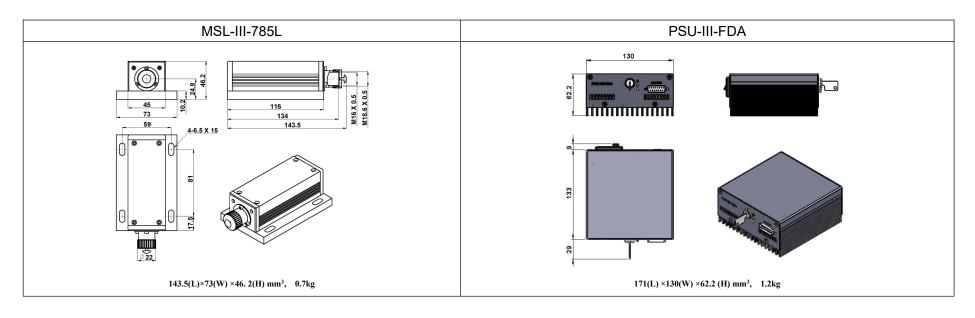
It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in Raman spectroscopy, speckle interferometry, bio-instrumentation, metrology, sensing, analytical instrumentation.



$\begin{tabular}{ c c c c } \hline Central wavelength (nm) & 785\pm1 \\ \hline Operating mode & CW \\ \hline Output power (mW) & > 10, 20,, 80 \\ \hline Power stability (rms, over 4 hours) & <1%, <2%, <3% \\ \hline Transverse mode & Near TEM_{00} \\ \hline Longitudinal mode & Single \\ \hline Spectral linewidth (MHz) & <50 \\ \hline Coherent length (m) & >2 \\ \hline M^2 factor & <1.5 \\ \hline Beam diameter at the aperture (1/e2,mm) & ~1.0 \\ \hline Beam divergence, full angle (mrad) & ~2.0 \\ \hline \end{tabular}$		
Image: Description of the system> 10, 20,, 80Output power (mW)> 10, 20,, 80Power stability (rms, over 4 hours)<1%, <2%, <3%	Central wavelength (nm)	785±1
Power stability (rms, over 4 hours) $<1\%, <2\%, <3\%$ Transverse modeNear TEM ₀₀ Longitudinal modeSingleSpectral linewidth (MHz) <50 Coherent length (m) >2 M^2 factor <1.5 Beam diameter at the aperture $(1/e^2,mm)$ $~1.0$ Beam divergence, full angle (mrad) $~2.0$	Operating mode	CW
Transverse mode Near TEM ₀₀ Longitudinal mode Single Spectral linewidth (MHz) <50	Output power (mW)	> 10, 20,, 80
Longitudinal mode Single Spectral linewidth (MHz) <50	Power stability (rms, over 4 hours)	<1%, <2%, <3%
Spectral linewidth (MHz) <50	Transverse mode	Near TEM ₀₀
Coherent length (m) >2 M ² factor <1.5	Longitudinal mode	Single
M² factor <1.5	Spectral linewidth (MHz)	<50
Beam diameter at the aperture (1/e ² ,mm) ~1.0 Beam divergence, full angle (mrad) ~2.0	Coherent length (m)	>2
Beam divergence, full angle (mrad) ~2.0	M ² factor	<1.5
	Beam diameter at the aperture (1/e ² ,mm)	~1.0
	Beam divergence, full angle (mrad)	~2.0
Polarization ratio >50:1 (>100:1, optional) Horizontal±5 degree (Vertical Optional)	Polarization ratio	>50:1 (>100:1, optional) Horizontal±5 degree (Vertical Optional)
Warm-up time (minutes) <5	Warm-up time (minutes)	<5
Beam height from base plate (mm) 24.8	Beam height from base plate (mm)	24.8
Operating temperature (°C) 10~35	Operating temperature (°C)	10~35
Power supply (85-264VAC) PSU-III-FDA	Power supply (85-264VAC)	PSU-III-FDA
Expected lifetime (hours) 10000	Expected lifetime (hours)	10000
Warranty 1 year	Warranty	l year







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