氬離子雷射
Argon-Ion Laser Heads

JDSU

2213系列 氬離子雷射頭

Air - Cooled Argon - Ion Laser Heads in Cylindrical Package - 2213 Series

Key Features

- Integral-mirror, metal-ceramic construction
- Hands-off operation
- Ultralow noise
- Fast warm-up
- Rugged construction
- Vibration isolation
- Ultrastable resonator and beam pointing

Applications

- DNA sequencing
- Flow cytometry
- Confocal microscopy
- Semiconductor inspection
- Hematology
- High speed printing
- Photo processing

Specifications

Parameter		2213-75SL	2213-15VL	2213-25VL
Optical				
Output power (TEM_{00},mW)		75	15	25
Wavelength (nm)		488	458	458
Mode purity (TEM_{00})		>95%	>95%	>95%
Beam diameter ($1/e^2$±5%,mm)		0.65	0.65	0.65
Beam divergence (mrad±5%)		0.95	0.95	0.95
Minimum polarization ratio		>250:1	>250:1	>250:1
Longitudinal mode spacing (MHz)		444	444	444
Noise	p-p, 20 Hz to 2 kHz	≤0.1%	≤0.1%	≤0.1%
	p-p, 20 Hz to 20 kHz	≤1.0%	≤1.0%	≤1.0%
	rms, 20 Hz 2 MHz	≤1.0%	≤1.0%	≤1.0%
Maximum drift (light control mode over 2 hours)		≤1.0%	≤1.0%	≤1.0%
Maximum warm-up time		15 minutes	15 minutes	15 minutes
Beam pointing stability after warm-up (2 hours, 25±3 °C)		<30 μRa	<30 μRad	<30 μRad
CDRH class		IIIb	IIIb	IIIb
Static alignment	Beam position	±0.25mm	±0.25 mm	±0.25 mm
	Beam angle	±2.5mrad	±2.5 mrad	±2.5 mrad
Environmental				
Temperature	Operating	4 to 40 °C	4 to 40 °C	4 to 40 °C
	Non-operating	-30 to 60 °C	-30 to 60 °C	-30 to 60 °C
Altitude	Operating	0 to 10,000 feet	0 to 10,000 feet	0 to 10,000 feet
	Non-operating	0 to 70,000 feet	0 to 70,000 feet	0 to 70,000 feet
Relative humidity (non-condensing)	Operating	0 to 90%	0 to 90%	0 to 90%
	Non-operating	0 to 100%	0 to 100%	0 to 100%
Shock	Operating	25 g for 11 ms	25 g for 11 ms	25 g for 11 ms
	Non-operating	25 g for 11 ms	25 g for 11 ms	25 g for 11 ms
Physical				
Weight		14 lbs.	14 lbs.	14 lbs.
Umbilical length		72 ± 2 inches	72 ± 2 inches	72 ± 2 inches

* Nominal airflow is 115 CFM.Use model 1NB412 McLean Engineering or equivalent fan rated for 185 CFM free air and typical pressure head of1.8 inches ofwater.

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