



方全有限公司  
Rapitech Enterprise Co.,Ltd.

# 氩离子激光器 Argon-Ion Laser Heads



## 2218系列 氩离子激光器 Air - Cooled Argon - Ion Laser Heads - 2218 Series

### Key Features

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

### Applications

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

### Specifications

Parameter	2218-0xxMLS	2218-0xxSLS
<b>Optical</b>		
Output power (TEM <sub>00</sub> )	25 mW	10/20/30 mW
Wavelength	458 to 515 nm	488 nm
Mode purity (TEM <sub>00</sub> )	>95%	>95%
Beam diameter (1/e <sup>2</sup> ±5%)	0.70	0.69
Beam divergence (mrad ±5%)	0.90	0.95
Minimum polarization ratio		250:1
Longitudinal mode spacing (TEM <sub>00</sub> only)		566
rms, 20 Hz to 2 kHz		≤0.1%
Noise p-p, 20 Hz to 20 kHz		≤2.5%
rms, 20 Hz to 2 MHz		≤1.0%
Maximum drift (light control mode over 2 hours)		≤1.0%
Maximum warm-up time		5 minutes
Beam pointing stability after warm-up (2 hours, 25 ±3°C)		<30 μRad
CDRH class		IIIb
Static alignment	Beam position	±0.25 mm
	Beam angle	±2.5 mrad

\* Nominal airflow is 52 CFM. Use Dayton model 4C442 or equivalent fan rated for 140 CFM free air and typical pressure head of 0.95 inches of water.

Product Code	Description
2218-010SLS	Argon laser head cylindrical package, 10 mW output power, single line operation at 488 nm, single mode
2218-020SLS	Argon laser head cylindrical package, 20 mW output power, single line operation at 488 nm, single mode
2218-030SLS	Argon laser head cylindrical package, 30 mW output power, single line operation at 488 nm, single mode
2218-025MLS	Argon laser head cylindrical package, 25 mW output power, multi line operation at 458 to 515 nm, single mode