方全有限公司
Rapitech Enterprise Co.,Ltd.

氬離子雷射
Argon-Ion Laser Heads

JDSU

2214系列 氬離子雷射頭

Air - Cooled Argon - Ion Laser Heads in Cylindrical and Rectangular Packages - 2211 / 14 Series

Specifications

Parameter		2214 -xxSL	2214 -xVL	2214 -xxGL	2214 -xxML *1,2	2211 -xxSL	2211 -xVL
Optical							
Output power (TEM_{00}, mW)		10/20/30	4	15/20	25/40	20/30	4
Wavelength (nm)		488	458	515	458 to 515	488	458
Mode purity (TEM_{00})		>95%					
Beam diameter ($1/e^2$±5%, mm)		0.70	0.69	0.69	0.71	0.70	0.67
Beam divergence (mrad ±5%)		0.90	0.90	0.90	0.90	0.90	0.90
Minimum polarization ratio		250:1					
Longitudinal mode spacing (MHz)		566					
Noise	p-p, 20 Hz to 2 kHz	≤0.1%					
	p-p, 20 Hz to 20 kHz	≤0.1%					
	rms, 20 Hz 2 MHz	≤1.0%					
Maximum drift (light control mode over 2 hours)		≤1.0%					
Maximum warm-up timer 5 minutes (to 95% power, minimum)		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					
Environmental							
Temperature	Operating	4 to 40 °C					
	Non-operating	-30 to 60 °C					
Altitude	Operating	0 to 10,000 feet					
	Non-operating	0 to 70,000 feet					
Relative humidity (non-condensing)	Operating	0 to 90%					
	Non-operating	0 to 100%					
Shock	Operating	25 g for 11 ms					
	Non-operating	25 g for 11 ms					
Physical							
Weight		8.5 lbs.	8.5 lbs.	8.5 lbs.	8.5 lbs.	14 lbs	14 lbs
Umbilical length		72±2 inches					

*1. For ML (multiline) models,458,476,488,497,502 and 515 nm wavelengths are present.
*2. For 2214 models,nominal airflow is 52 CFM.Use JDSUmodel 2402 or equivalent fan rated for 140 CFM free air and typical pressure head of0.95 inches ofwater.

Product Code	Description
2214-10SL	Argon laser head medium power, cyclindrical package, 10 mW output power, single line operation at 488 nm
2214-20SL	Argon laser head medium power, cyclindrical package, 20 mW output power, single line operation at 488 nm
2214-30SL	Argon laser head medium power, cyclindrical package, 30 mW output power, single line operation at 488 nm
2214-4VL	Argon laser head medium power, cyclindrical package, 4 mW output power, violet line operation at 458 nm
2214-15GL	Argon laser head medium power, cyclindrical package, 15 mW output power, green line operation at 515 nm
2214-20GL	Argon laser head medium power, cyclindrical package, 20 mW output power, green line operation at 515 nm
2214-25ML	Argon laser head medium power, cyclindrical package, 25 mW output power,multiline operation at 458 to 515 nm
2214-40ML	Argon laser head medium power, cyclindrical package, 40 mW output power,multiline operation at 458 to 515 nm
2211-20SL	Argon laser head medium power, rectangular package, 20 mW output power, single line operation at 488 nm
2211-30SL	Argon laser head medium power, rectangular package, 30 mW output power, single line operation at 488 nm
2211-4VL	Argon laser head medium power, rectangular package, 4 mW output power, violet line operation at 458 nm

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