

405nm Low Noise Laser

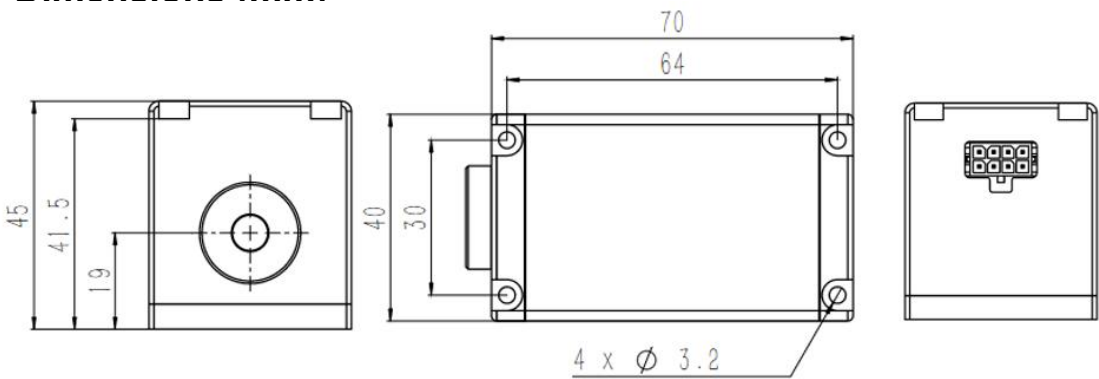


B405D080-70x40x45-1.0

Applications

- . Flow cytometer
- . Hematology analyzer
- . DNA sequencing
- . Semicoductor Testing

Dimensions (mm)



Specifications

Model Number	B405D080-70x40x45-1.0		
Mechanical Specifications	Min	Typ	Max
Width x Height (mm)	-	40x45	-
Length (mm)	-	70	-
Weight (g)	-	-	200
Housing Material	Grey Anodized Aluminum		
Optical Specificaitons	Min	Typ	Max
Wavelength (nm)	402	405	408
Bandwidth (nm)	-	2	-
Output Power (mW)	0	-	80
RMS Power Stability (25°C, 8h)	-	-	1%
RMS Noise (10Hz-2MHz, 5s)	-	-	0.1%
Output Power Mode	CW		
Laser Class	3b		

Polarization Extinction Ratio (dB)		20	-	-
Polarization Orientation (Vertical)		-3°	-	3°
Beam Specifications		Min	Typ	Max
Beam Divergence ⁽¹⁾	Horizontal (mrad)	-	0.3	-
	Vertical (mrad)	-	0.5	-
Beam Dimensions ⁽²⁾	Horizontal (mm)	2.5	3.0	3.5
	Vertical (mm)	1.0	1.3	1.6
M ²		-	1.3	-
Beam Alignment Off-axis Angle (mrad) ⁽¹⁾		-	-	2.5
Beam Pointing Stability (urad/°C)		-	-	5
Beam Height from Base Plate (mm)		-	19	-
Electrical Specifications		Min	Typ	Max
Operating Voltage (V)		DC12V		
Operating Current (A)		-	2	-
Power Type		APC		
Output Power Control		Master Computer Control ⁽³⁾		
Power Supply to Laser Driver Connection		8-hole Direct Plug (Terminal can be customized)		
Reliability		Min	Typ	Max
Environmental Temperature (°C)		15	25	40
Warm-up Time (minutes)		-	-	2
Storage Temperature (°C)		-20	-	60
Environmental Humidity (RH, %)		10	-	90
Lifetime (h) (MTTF at 25°C)		5,000	-	10000

⁽¹⁾ Full Angle (1/e²)

⁽²⁾ at Working Distance 300mm (1/e²)

⁽³⁾ Communication protocols is required for this control, as it is customized according to our one customer's requirement.