

405 nm Low Noise Violet-blue Diode Laser MLL-III-405

Model #: MLL-III-405

Description: Low noise violet diode laser module at 405nm MLL-III-405 features ultra compact, long lifetime, low cost and easy operating.

Application: Measurement, communication, spectrum analysis, etc.

Specifications

Wavelength (nm)	405 ± 5	
Output Power (mW)	>1, 2, 3,....., 500	>500, 600,, 1000
Transverse Mode	Near TEM ₀₀	Multimode
Operating Mode	CW	
Power Stability (rms, over 4 hours)	<1%, 2%, <3% (<0.5% optional)	
Amplitude Noise (rms, 20Hz~20MHz)	<1%	
M ² factor	<1.5 (<1.2 optional)	N/A
Warm-up Time (minutes)	<5	
Polarization Ratio	>50:1 (>100:1 optional) Horizontal +/- 5 degree, (vertical optional)	>50:1 Horizontal +/- 5 degree, (vertical optional)
Beam Divergence, Full Angle (mrad)	~0.5	<3.0 x 2.5
Beam Diameter at the Aperture (1/e, mm)	~2.5 (~1.2 optional)	~ 3.0 x 2.5
Beam Height from Base Plate (mm)	24.8	
Pointing Stability after Warm-up (mrad)	<0.05	
Operating Temperature (C°)	10 ~ 35	
Power Supply	85-264VAC	PSU-III-LED or PSU-III-FDA (frequency for 1-30KHz)
	100-240VAC	PSU-A-D (Frequency for 30kHz -100kHz)
TTL/Analog Modulation	TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional	
Expected Lifetime (hours)	10000	
Warranty Period	1 year	

Ordering Information: MLL-III-405-A-B-C-D

A: maximum output	B: power stability	C: power driver	D: modulation
1 - 50 mW	1 - 1%	1 - PSU-III-FDA	T - TTL
100 - 100 mW	2 - 2%	2 - PSU-III-LED	A - analog
200 - 200 mW	3 - 3%	3 - PSUA-D	N - no modulation
300 - 300 mW	0.5 - 0.5%		
.....			
1000 - 1000 mW			
X - other			

<p style="text-align: center;">MLL-III-405</p> <p style="text-align: center;">143.5(L)×73(W)×46.2(H) mm³, 0.7kg</p>	<p style="text-align: center;">PSU-III-LED</p> <p style="text-align: center;">188.6 (L) ×155(W) ×92 (H) mm³, 1.5kg</p>
<p style="text-align: center;">PSU-III-FDA</p> <p style="text-align: center;">171(L) ×130(W) ×62.2 (H) mm³, 1.2kg</p>	<p style="text-align: center;">PSU-A-D</p> <p style="text-align: center;">162(L) ×144(W) ×70 (H) mm³, 1.0kg</p>

