

FLEXPOINT® Laser Diode Module

Purple/Blue 405/445 nm

DESCRIPTION

FLEXPOINT® laser diode modules are available at blue and purple wavelengths (i.e., laser diodes at 405 nm and 445 nm, respectively). The maximum output power at 405 nm is 100 mW; at 445 nm it is 40 mW.

An aspheric lens is used as optic, allowing the laser beam to be either focused or collimated. Line lasers are also available. All drive electronics are already integrated into the housing.

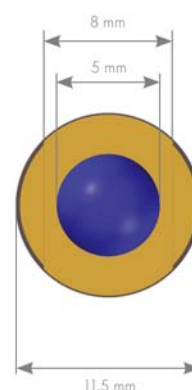


FEATURES

- additional protection circuit against power surges
- circular or elliptical beam profile
- output power up to 100 mW
- optional analog or digital modulation
- optional power adjustment via potentiometer or third wire
- small housing

APPLICATIONS

- optical data storage
- fluorescence excitation
- spectroscopy
- optical measuring systems
- medical applications



Model	FP-40/...	FP-44/...
Wavelength	405 nm	445 nm
Output power [X]	up to 20/100 mW (lower power levels available upon request)	up to 40 mW (lower power levels available upon request)
Power stability	< 5 % after 5-10 minutes warm-up	
Beam profile	circular or elliptical, focusable (lower power with circular beam)	
Beam divergence	~ 0,6 mrad	
Pointing stability	< 0,2 mrad / °C	
Input voltage	10 – 30 VDC, reverse voltage protection	
Power consumption	approx. 50 mA – 250 mA (depending on laser diode)	
Operating temperature range	-10 °C to +50 °C	
Housing	aluminium, potential free, black anodized	
Dimensions	see drawing on page 1	
Options	digital or analog modulation (up to 10 kHz) output power adjustment via potentiometer or third wire line optics SMA fiber connector (fiber diameter > 100 µm)	

STANDARD MODULES

FP-40/1AF-AV-SD5	405 nm	1 mW	circular beam
FP-40/10AF-AV-SD5	405 nm	10 mW	circular beam
FP-40/20AF-AV	405 nm	20 mW	elliptical beam
FP-40/40AF-AV-SD5	405 nm	40 mW	circular beam
FP-40/50AF-AV	405 nm	50 mW	elliptical beam
FP-40/100AF-AV	405 nm	100 mW	elliptical beam

FP-44/1AF-AV-SD5	445 nm	1 mW	circular beam
FP-44/10AF-AV-SD5	445 nm	10 mW	circular beam
FP-44/20AF-AV-SD5	445 nm	20 mW	circular beam
FP-44/40AF-AV	445 nm	40 mW	elliptical beam

*all specifications subject to change without notice

