

MARK VII Series

High Visibility Diode Laser Systems

GreenLine



Features:

- 532 nm green diode produces high intensity line
- Well suited for production areas with above average lighting
- Custom engineered optics produce a clean, consistent line from end to end
- Wide selection of optics available to produce line lengths for different applications
- Custom focusing available- produce an even line intensity from any mounting angle

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The Ellison Group

#152-1124 Fir Avenue, Blaine, WA, USA 98230

Phone: (503) 644-7007 Fax: (503) 644-7834

TOLL FREE: 877-977-0022 Web: www.ellisonlaser.com

External Housing Specifications

Housing Dimensions	Ø19.05mmx185.0mm (0.75"x7.28")
Housing Material	Aluminum, Hard Red Anodized T6061, Electrically Isolated
Exit Aperture Protection	AR Coated, BK7 Glass or Sapphire Window
Customizations	Dimensions, Materials, Exit Aperture Protection

Electrical Specifications

Operating Voltage	100-240Vac Options: 9-24Vdc or 12-24Vac or 5Vdc
Load Current	200-400mA
Load Current vs. Temperature	0.7mA/°C Nominal
Continuous Wave Standard Driver	Option: Constant current
TTL Modulation Optional Driver	CW to 10kHz, Full Depth Modulation, +5VDC = ON
Electronic Protection	Reverse Polarity, Over Voltage, Surge Protection
Interconnect, Cable, Red +, Black -, (White TTL)	180mm Nominal, 20AWG, UL1569, or customized

Environmental Specifications

Operating Temperature	5°C to 40°C
Storage Temperature	-40°C to 80°C
Dust/Water Resistant	Yes IP65

Optical Specifications

Wavelength	532nm
Wavelength Stability	0.3nm/°C Nominal
Optical Output Power	1-50mW (at the exit aperture)
Power Output Stability at 25°C	+/- 1%
Line Generator	Customized, fan angle 7,5° - 90°
Spot Size	Customized
Beam Divergence	<5mrad
Focal Distance	User defined
Line Thickness	Distance dependent
Line Thickness Divergence	<1mRad
Line Intensity Profile	Gaussian or Uniform
Lens Material	Glass or Plastics (HEA Coated)

Pointing Specifications

Accuracy	<3mrad
Stability vs. Temperature	<10urad/°C

Reliability/Regulatory Specifications

Laser Lifetime expected	>10.000 hrs @ 25°C
Certification/Regulatory	FDA/CDRH, CE
Warranty	2 Year



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