



**L3HARRIS™**  
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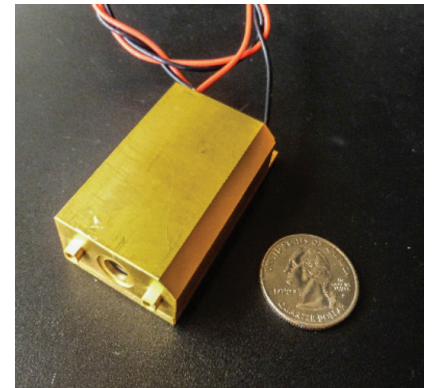
## MK-85

1 to 10 Hz, 2+ mJ, 6 ns

### MK-85

#### Specifications

Wavelength	1535 nm
Laser Energy	2+ mJ
Pulse Repetition Rate	1 to 10 Hz 30 °C to 39 °C for 5 to 10 Hz, 50% duty cycle per minute 40 °C to 50 °C for 5 to 10 Hz, 20% duty cycle per minute
Laser Pulse Width	≈ 6 ns
Raw Beam Diameter	0.8 mm
Beam Divergence (D4σ method)	≤ 4.2 mrad
M <sup>2</sup>	≤ 1.7
Beam Wander	≤ 0.5 mrad
Laser Head Size (in inches)	0.65 in x 1.20 in x 2.19 in
Laser Head Size (in centimeters)	1.65 cm x 3.05 cm x 5.56 cm
Laser Head Weight	≈ 136 g
Laser Operational Temperature	-30 °C to +50 °C
Laser Storage Temperature	-55 °C to +90 °C
Electrical Requirements	4 V, 100 A, < 3 ms
Conductive Cooling Requirements	< 12 W
Integrated Photodiode	Yes



The MK-85 is an “eye-safe” 1.54 μm diode-pumped passively q-switched Erbium glass laser transmitter with integrated photodiode.

## ABOUT L3HARRIS

L3Harris is an ISO 9001:2015 certified full-service manufacturer of miniature eye-safe diode-pumped 1.54 $\mu$ m Erbium glass laser transmitters and specialty laser and filter glass material. These items are used in applications including laser range-finding, range gate imaging, Light Detection and Ranging (LIDAR), and Laser-Induced Breakdown Spectroscopy (LIBS).



### MK-85

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