

1 to 10 Hz, 2+ mJ, 6 ns

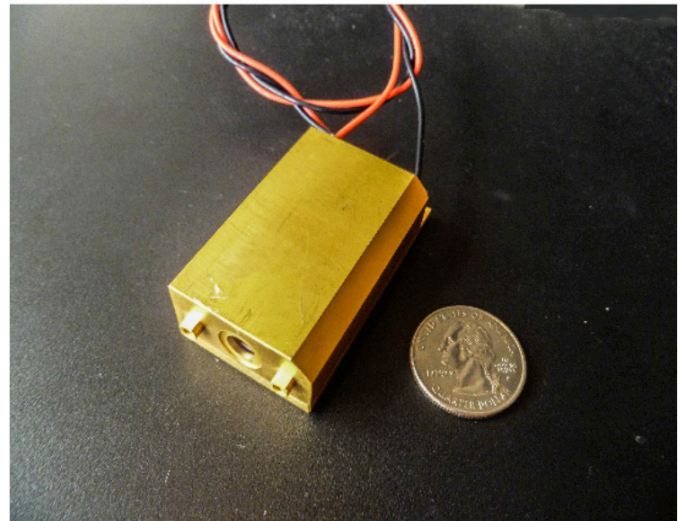
ABOUT L3 KIGRE

L3 Kigre manufactures miniature “eye-safe” diode-pumped 1.54 μm Erbium glass laser transmitters and specialty laser and filter glass materials optimized for use in microchip, microplate, fiber, waveguide and disk laser/ amplifier applications.

PRODUCT OVERVIEW

L3’s MK-85 is an “eye-safe” 1.54 μm diode-pumped passively q-switched Erbium glass laser transmitter with integrated photodiode.

Leaders in Solid State Laser Components



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 (D4 σ method)	≤ 4.2 mrad
M ²	≤ 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

L3 Kigre, Inc.

100 Marshland Road
Hilton Head, SC 29926
Tel: 843-681-5800
Fax: 843-681-4559
Email: info.kigre@L3T.com
www.L3T.com/Kigre

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