

# EYE-SAFE ULTRA-COMPACT LASER TRANSMITTER KULT - Series

# KULT®

*The KULT series is a range of Eye-Safe fibre laser source delivering high peak power and high energy per pulse in a very compact package. The output beam is diffraction-limited. This source is ideal for telemetry or range-finding applications and can be operated in harsh environment.*

## FEATURES

- **Energy per pulse**  
Up to 30µJ
- **Peak power**  
Up to 6kW
- **Pulse duration**  
From 0.5 to 50ns
- **Pulse repetition frequency** from 1KHz to 1MHz
- **Continuous or burst operation**
- **Diffraction limited**
- **Low power consumption**
- **Wide operating temperature range** (-35°C to +65°C)
- **Compact OEM module**

## APPLICATIONS

- **Telemetry**
- **Range-finding**
- **3D scanning**
- **Weather monitoring**
- **Pollution monitoring**
- **Mapping**



All products comply with IEC 60825-1 and FDA (21 CFR Subchapter J) laser safety standards.

Keopsys undertakes a continuous and intensive product development program to ensure that its products perform to the highest technical standards. As a result, the specifications in this document are subject to change without notice.



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**KEOPSYS**  
KEY OPTICAL SYSTEMS

# EYE-SAFE ULTRA-COMPACT LASER TRANSMITTER KULT – Series

2007-17-05 – v1.0

## Specifications:

Optical	Model		
	002-050-008	028-007-020	006-001-100
Mode of operation	Pulsed		
Operating Wavelength	1550-1562 nm	1545-1546 nm	1545-1546 nm
Energy per pulse	2 $\mu$ J	28 $\mu$ J	6 $\mu$ J
Peak power	40 W	4 kW	6 kW
Average power	16 mW	650 mW	600 mW
Pulse repetition frequency	8 kHz	20 kHz	100 kHz
Pulse duration	20-50 ns	7 ns	1 ns
Pigtail length	>60 cm	>30 cm	>30 cm
Fiber type	SMF		
Polarization	Random		
Beam Quality	$M^2 < 1.2$		
Output termination	FC/APC or collimator (optional)		
<b>Electrical</b>			
DC Voltage	5 to 12 V and 3.3 V		
Power consumption	<3 W	<16 W	<16 W
Interface	TTL signals and analog control		
Warm-up time	-	1 min max	
<b>Environmental</b>			
Operating case temperature	0°C to +50°C (-35°C to +65°C optional)		
Storage temperature	-40°C to +85°C		
<b>Packaging</b>			
Dimensions	90 x 20 mm (D x H)		
Weight	< 200 g		

## Ordering information:

**KPS - KULT2 - 1550 - WWW - XXX - YYY - SD - ZZ**

**WWW = Energy in  $\mu$ J**  
**XXX = Pulse duration in ns**  
**YYY = Pulse repetition frequency in kHz**  
**ZZ = Output termination (FA = FC/APC, CO = Collimator)**

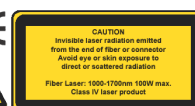
Example: KPS- KULT2-1550-002-050-008-SD-FA  
 Energy = 2  $\mu$ J  
 Pulse duration = 50 ns  
 Pulse repetition frequency = 8 kHz  
 Output termination = FC/APC

**Custom solutions upon request**  
**Please contact Keopsys for more information**



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