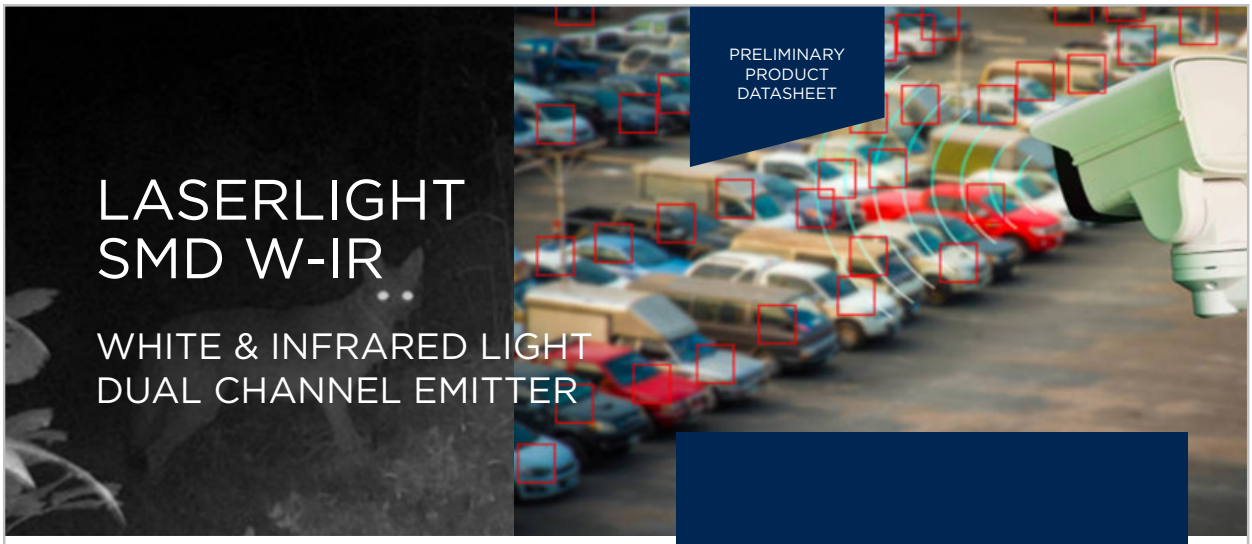
Laser Diodes

SLDLASER

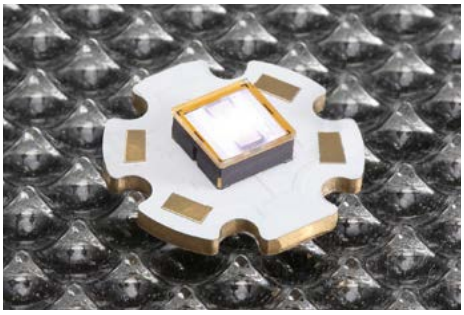
LASER COMPONENTS



PRELIMINARY PRODUCT DATASHEET

LASERLIGHT SMD W-IR

WHITE & INFRARED LIGHT DUAL CHANNEL EMITTER



Part Numbers: 910-00014/16-TR LaserLight SMD and 910-00015/17-IT SMD on Star MCPCB

PRODUCT OVERVIEW

LaserLight SMD W-IR by SLD Laser is the world's first switchable, dual channel, high luminance, white laser light combined with Infrared emission. Featuring 450 lumens, 1000 Mcd/m² and 250mW IR in a compact 7mm SMD, LaserLight SMD enables ultra-long throw distance and small optic sizes for specialty lighting applications.

LIGHTING APPLICATIONS

- Lighting & Infrared Illumination
- Outdoor & Portable
- Automotive
- Search & Rescue, Security

FEATURES & BENEFITS

- World's highest white light luminance 1000 Mcd/m²
- Infrared emission (switchable)
- Enables less than 2 degree beam angle from 35mm optic
- Compact 7mm SMD with built-in safety features

PRODUCT RECOGNITIONS

- Lightfair Innovation Award
- LEDs Magazine Sapphire Awards Finalist
- SPIE, Photonics Media Prism Award Finalist
- IES Progress Report Selection
- LaserFocusWorld Gold Innovator

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LASER COMPONENTS

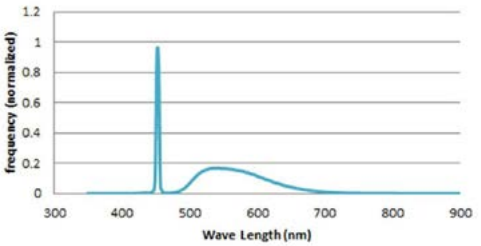
LASERLIGHT SMD
WHITE LIGHT EMITTER

PRODUCT SPECIFICATIONS SUMMARY

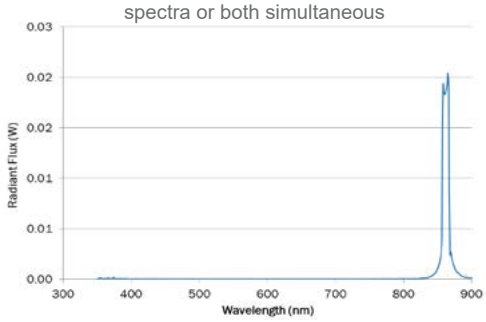
PRODUCT CHARACTERISTICS

Parameter	Units	Typical Value
White Light Channel		
Luminous Output	lm	475
Emitting Region (dia.)	mm	0.30
Luminance	Mcd/m²	1000
Color Temperature (CCT)	K	6000
Color Rendering Index	CRI	70
Forward Current	A	2.3
Forward Voltage	V	5.0
Infrared Channel		
Dominant wavelength	nm	850, 905
Output Power	mW	250
Emitting Region (dia.)	mm	0.35
Forward Current	A	1.0
Forward Voltage	V	1.8
Mechanical Characteristics		
Package Dimensions	mm	7.0 sq x 2.6
Max oper. temp. (case)	°C	50
Viewing Angle	deg.	120

SPECTRAL POWER DISTRIBUTIONS



Device may be switched between spectra or both simultaneous



ABOUT SLD LASER

SLD Laser is commercializing a new generation of visible laser sources for display, automotive, and specialty applications. SLD Laser's visible laser light sources are used directly in single color and R-G-B applications, or integrated into laser pumped phosphor architectures. These sources enable applications in a myriad of vertical markets, including: general lighting, automotive headlights, projection displays, defense pointers & illuminators, biomedical instrumentation & therapeutics, and industrial material processing & imaging applications. SLD Laser was founded by several leading global pioneers in solid-state lighting, including Dr. Shuji Nakamura, 2014 Nobel Laureate in Physics, Dr. Steve Denbaars, Dr. James Raring, and Dr. Paul Rudy. SLD Laser operates fabrication facilities in California's Silicon Valley and Santa Barbara, CA. To learn more about SLD Laser, visit http://www.SLDLaser.com, or contact the company at Info@SLDLaser.com or 805-696-6999.

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