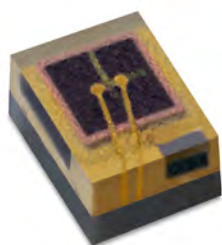




# LUXEON IR Compact Line

High power infrared emitters enabling the next level of design flexibility



The LUXEON IR Compact Line is a product line of high power infrared emitters specifically designed for high efficiency as required in a small spaces. Their compact and well-defined light source geometry allows them to be easily coupled into secondary optics for tight beam control. LUXEON IR Compact Line is designed with innovative LUXEON technology to provide industry-leading performance. Through best-in-class thermal conductivity, LUXEON IR Compact Line has excellent performance at actual operating conditions.

## FEATURES AND BENEFITS

Available in 850nm and 940nm wavelengths to provide optimized performance for each type of application

Radiant Power: 1050mW (850nm) and 1150mW (940nm) for a greater system performance

Compact package of 1.9mm x 1.37mm with a 2-pad configuration provides the highest power density in the industry for a new level of miniaturization

Ultra-low  $R_{th}$  of 2.8°C/W, solves thermal challenges and supports space saving designs

## PRIMARY APPLICATIONS

Surveillance / CCTV

Machine Vision

3D Scanning / Time of Flight

Biometric Identification

User Interface Control

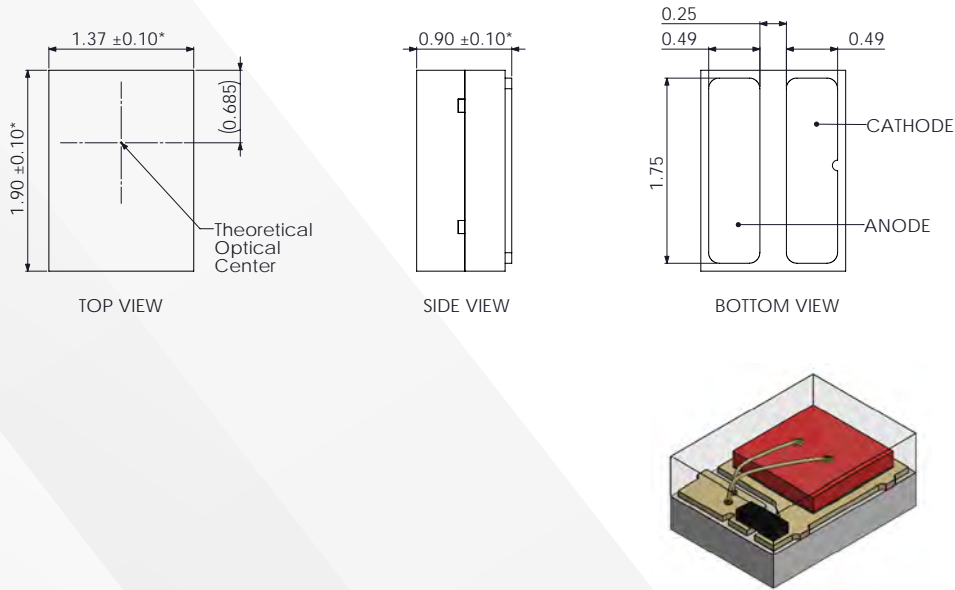
Augmented / Virtual Reality

LUXEON IR Compact Line product performance at 1000mA, T<sub>j</sub>=25°C.

PEAK WAVELENGTH <sup>[1]</sup>	TYPICAL FWHM BEAM ANGLE (°)	RADIOMETRIC POWER <sup>[2]</sup> (mW)		TYPICAL RADIANT INTENSITY (mW/sr)	TYPICAL SPECTRUM FWHM (nm)	PART NUMBER
		MINIMUM	TYPICAL			
850nm	150	900	1050	250	35	L1IZ-0850000000000
940nm	150	1000	1150	300	35	L1IZ-0940000000000

Notes:  
1. Lumileds maintains a tolerance of ±0.5nm on peak wavelength measurements.  
2. Lumileds maintains a tolerance of ±7% on radiometric power measurements.

Mechanical Dimensions.



Notes:  
1. Drawings are not to scale.  
2. All dimensions are in millimeters.