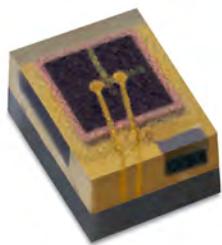




LUXEON IR Compact Line

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

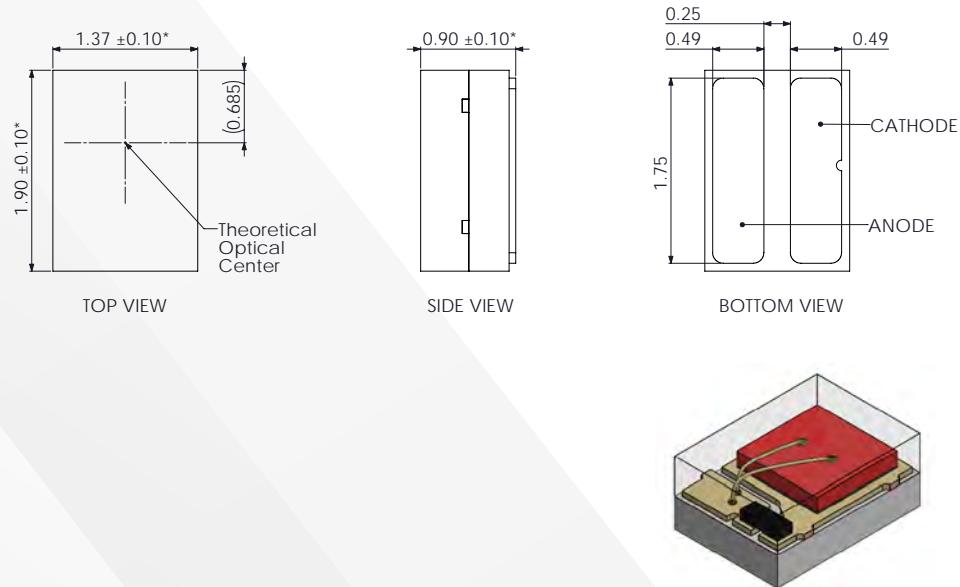
LUXEON IR Compact Line product performance at 1000mA, T=25°C.

PEAK WAVELENGTH ^[1]	TYPICAL FWHM BEAM ANGLE (°)	RADIOMETRIC POWER ^[2] (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 ± 0.5 nm on peak wavelength measurements.
2. Lumileds maintains a tolerance of $\pm 7\%$ on radiometric power measurements.

Mechanical Dimensions.



Notes:

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