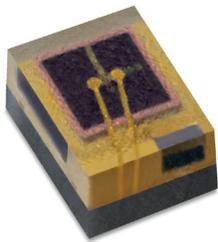




LUXEON IR Compact for Automotive Line

High power infrared emitters with automotive qualification, enabling the next level of design flexibility



The LUXEON IR Compact for Automotive Line high power infrared emitters are tailored to application needs by offering a variety of products at multiple infrared wavelengths. LUXEON IR Compact emitters are designed with innovative LUXEON technology to provide industry-leading performance. Through best-in-class thermal conductivity, LUXEON IR Compact for Automotive Line has excellent performance at actual operating conditions. All LUXEON IR Compact for Automotive Line LEDs are AEC-Q102 qualified.

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 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 2.8-3.1°C/W, the industry's best thermal conductivity, solves thermal challenges and supports space saving designs

PRIMARY APPLICATIONS

Driver Monitoring Systems

Biometric Identification

Lane Departure Systems

Night Vision Systems

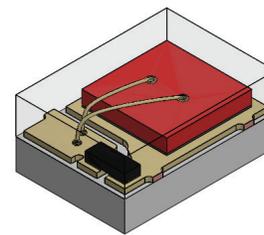
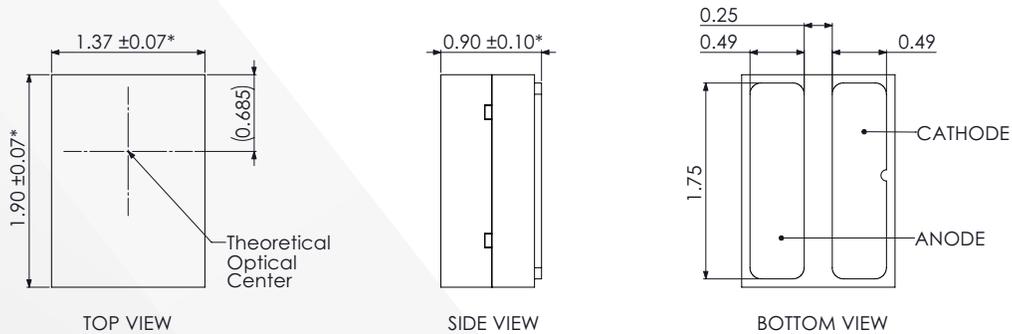
LUXEON IR Compact for Automotive Line product performance at 1000mA, T_j=25°C.

PEAK WAVELENGTH ^[1] (nm)	TYPICAL FWHM BEAM ANGLE (°)	RADIOMETRIC POWER ^[2] (mW)		TYPICAL RADIANT INTENSITY (mW/sr)	PART NUMBER
		MINIMUM	TYPICAL		
850	150	900	1050	250	L1IZ-A850000000000
940	150	1000	1150	300	L1IZ-A940000000000

Notes:

1. Lumileds maintains a tolerance of ±2 nm 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.