



LUXEON IR ONYX

Industry leading broadband IR solution for spectroscopy and hyperspectral imaging applications



The LUXEON IR ONYX emitter features a continuous broadband infrared (IR) emission from 650 to 1100nm with superior light output characteristics. The product comes in an industry standard 2720 package and footprint for easy integration in existing designs. The LUXEON IR ONYX allows for new possibilities for miniaturization of spectroscopy and hyperspectral imaging applications in hand-held devices for mobile, industrial, and medical applications.

FEATURES AND BENEFITS

Radiant Power over 40mW IR (600–1050nm) to reduce exposure time

More than 80 $\mu\text{W}/\text{nm}$ over a broad range (750–1000nm)

2.75mm x 2.00mm package with a 2 pad configuration that is compatible with the industry common footprint

Lumileds phosphor expertise resulting in robust, long lifetime phosphors

Flat spectrum allows for ease of calibration

PRIMARY APPLICATIONS

Spectroscopy

Machine Vision

Healthcare

Hyperspectral Imaging

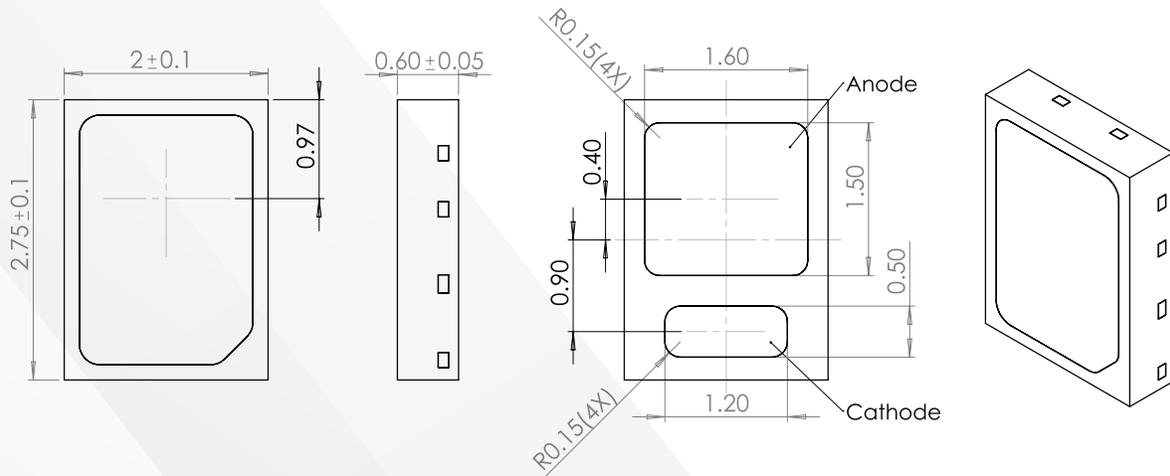
LUXEON IR ONYX product performance and optical characteristics at 350mA, T_j=25°C.

WAVELENGTH ^[1] (nm)	TYPICAL FWHM BEAM ANGLE (°)	RADIOMETRIC POWER ^[2] 600-1050nm (mW)		SPECTRAL FLUX 750-1000nm (µW/nm)		PART NUMBER
		MINIMUM	TYPICAL	MINIMUM	TYPICAL	
600-1050	120	40	50	80	150	L1IG-0750100000000

Notes:

1. Lumileds maintains a tolerance of ±5nm on peak wavelength measurements.
2. Lumileds maintains a tolerance of ±7% on radiometric power and spectral flux measurements.

Mechanical Dimensions.



Notes:

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