ENFIS UNO Plus Array Green 520nm

Smart, powerful, compact, efficient, reliable light

Features & Benefits

- **Intense, high-power Green spot source**
- **Ultra-high power density**
- **Long-life and reliable, high-performance due to excellent thermal conductivity**
- **Simple integration via connectorized PCB with mounting holes**

Outline Specification

- **1460mW typical power**
- **1cm² Aperture**
- **1270mW/cm² power density**
- **Input power: 50W**
- **Typical thermal resistance <1°C/W**

Light Engine Integration

Enfis can eliminate the time, cost and risk of integration by offering our arrays as part of a complete light engine solution

Thermal Management

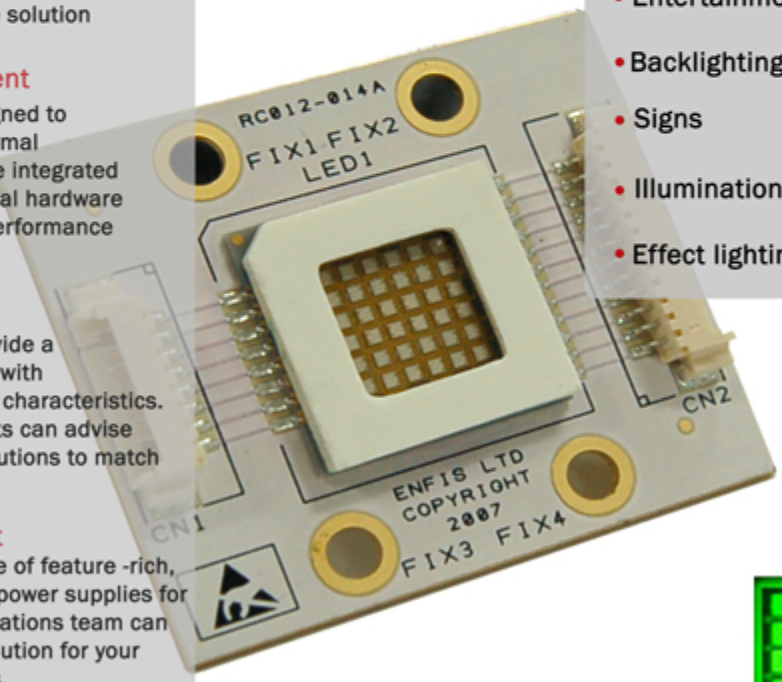
Enfis arrays are designed to provide excellent thermal conductivity and to be integrated effectively with thermal hardware to ensure optimum performance and life.

Optics

Enfis UNO arrays provide a compact spot source with Lambertian emission characteristics. Enfis technical experts can advise a range of optical solutions to match your requirements.

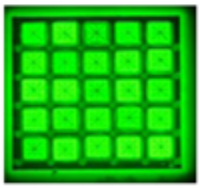
Power Management

Enfis provides a range of feature -rich, powerful drivers and power supplies for our arrays. Our applications team can provide you with a solution for your specific requirements.



Applications & Markets

- Architectural lighting
- Entertainment lighting
- Backlighting
- Signs
- Illumination
- Effect lighting



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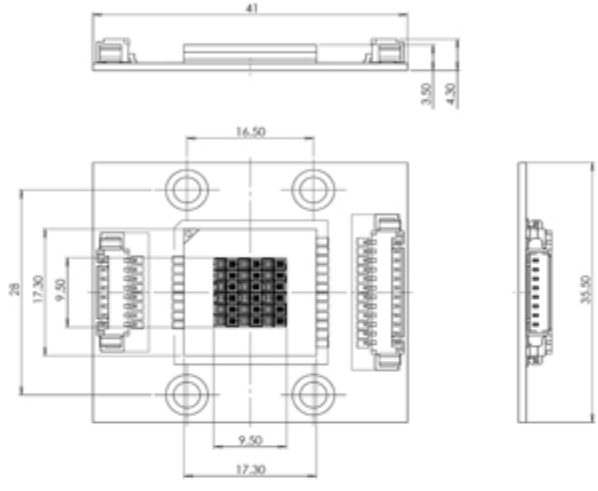
Technical Specification

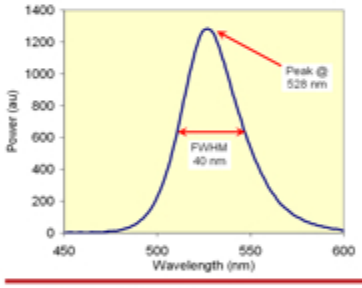
Electro-Optical Characteristics

Item	Min	Typ	Max
Rated Current I_f (mA)		1.76	
Forward Voltage V_f (Volts)		28	
Peak Wavelength λ_p (nm)	510	520	530
Dominant Wavelength λ_d (nm)	518	528	538
Spectral Width $\Delta\lambda$ (nm)	28	36	42
Total Radiant Flux F_R (mW)		1460	
Radiant Flux Density $d\Phi_R/dA$ (mW/cm^2)		1270	
Total Luminous Flux Φ_L (Lumen)		900	
Luminous Flux Density Φ_L/A (Lumen/cm^2)		783	
Total Electrical Power P (W)		50	

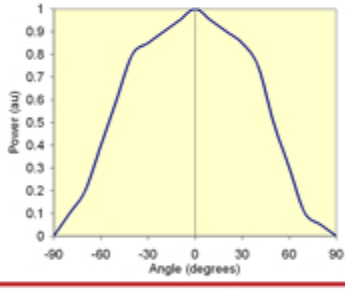


All measurements performed at heatsink temperature 25°C

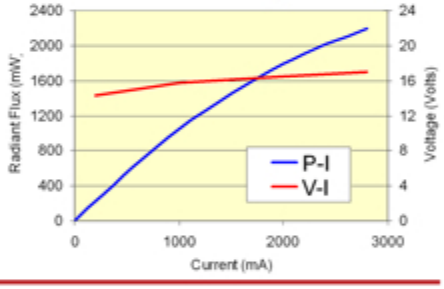
Spectral Data



Angular Distribution



LIV Graph



Heat Generation

Proper thermal design of the end product is of paramount importance. The operational junction temperature of each LED chip should be kept below 125°C.
Please contact Enfis for further support in this matter.

Handling LED Array

Contact with the encapsulant on the surface of the LED array must be avoided to prevent damage.
Do not apply pressure to the encapsulant or allow it to come into contact with the sharp objects.
During operation the encapsulant will be hot and contact should be avoided.

Static Electricity

Care must be taken when handling, these products are sensitive to static electricity.
Observe static handling precautions

Cleaning

Avoid touching the LED array surface.
To clean – BLOW surface with either dry air or nitrogen gas

Eye Safety Precautions

The light output of the products may cause injuries to human eyes in circumstances where the products are viewed directly with unshielded eyes for more than a few seconds.

Please refer to IEC 60825-1:2001 for further information.

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