ENFIS QUATTRO Array Blue 465nm

Smart, powerful, compact, efficient, reliable light

Features & Benefits

- Intense, high-power Blue spot source
- Ultra-high power density
- Long-life and reliable, high-performance due to excellent thermal conductivity

Outline Specification

- · 66000mW typical power:
- 16cm² Aperture
- 4125mW/cm² power density
- Input power: 384W

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

Smart Array Technology

Light output from Enfis Arrays can be monitored and controlled via a patent-pending integrated photo-detection system, enabling precise control of light output.

Thermal Management

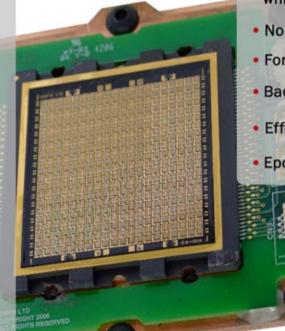
Enfis arrays are designed to provide excellent thermal conductivity and to be integrated effectively with thermal hardware to ensure optimum performance and life.

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

- Neo-natal
- Dental: filler curing and whitening
- Non-Destructive testing
- Forensic investigation
- Backlighting
- Effect lighting
- Epoxy/Adhesive Curing



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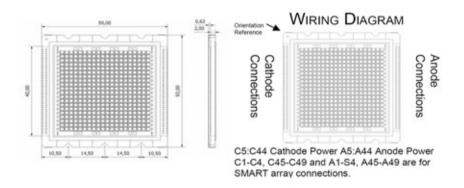


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Technical Specification

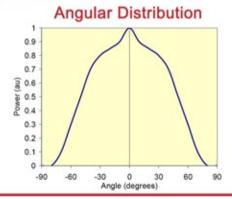
Electro-Optical Characteristics

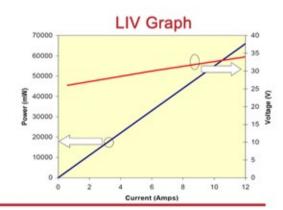
Con C Cpac		T	***
Item	Min	Тур	Max
Rated Current	2000	12000	The latest at
I _r (mA)			
Forward Voltage		32	35
V _f (Volts)		72.2	
Peak Wavelength	455	465	475
λ _p (nm)			100000
Dominant Wavelength	461	471	481
λ _d (nm)			
Spectral Width	20	25	35
Δλ (nm)	12,772	0000	2,000
Total Radiant Flux	50000	66000	
Φ _R (mW)	-	***************************************	
Radiant Flux Density	3125	4125	
dΦ _R /dA (mW/cm ²)	15555	200000	
Total Luminous Flux		3300	
Φ _L (Lumen)		1100	
Luminous Flux Density		206	
Φ _L /A (Lumen/cm ²)			
Total Electrical Power		384	420
P (W)			



Spectral Data

4000
3500
3500
2500
2500
1500
1000
500
400
450
500
500
500





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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