

# **ENFIS QUATTRO Mini Array Green 520nm**

The latest in ultra bright, chip on board, LED lattice arrays. Compact, single colour spot source.

# **Features**

# Mounted array for simple incorporation High power useable light

- Array mounted on connectorized PCB
- Drop-in capability into existing luminaires
- •Incorporating thermal measurement device
- Designed for passive or active cooling **Densely packed lattice CoB array**
- •144 LEDs in 4cm<sup>2</sup>
- Superior dynamic range
- •Ultra bright output

- Drive to 200W
- Potential for pulsing together with analogue and PWM dimming

# Rugged and proven

- Superior >20,000 hour lifetime
- Reliable and repeatable performance operated in the harshest of environments

### **Inbuilt monitoring / control**

- Potential for active monitoring and closed loop feedback and control of light output using integrated and calibrated photodiodes
- Inbuilt capability for temperature monitoring control and protection via integrated temperature sensors

# **PCB Arrays**

Enfis can reduce the time, cost and risk of integration by offering purpose mounted ultra-bright multi-channel/colour arrays. These can be readily driven by appropriate drivers.

# **Smart Array Technology**

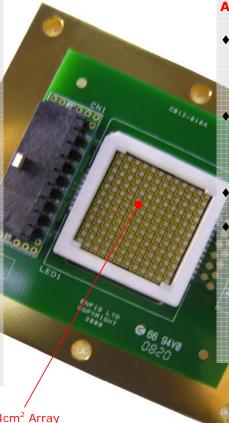
Light output from Enfis Quattro-Mini arrays may be monitored and controlled patent-pending integrated photo-detection system, enabling precise control and repeatable light output.

# **Thermal Management**

Enfis Quattro-Mini arrays are designed to provide excellent thermal conductivity and integrate simply providing optimum performance and lifetime.

# **Optics**

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



# **Applications & Markets**

- **Architectural lighting** 
  - **Exterior buried spotlights**
  - **Exterior floodlights**
  - Exterior/interior wallwashing
  - **Entertainment lighting**
  - Club/bar lighting
  - Theatre spot gel replacement
  - **Moving spots**
  - Fibre optic lighting
  - **Illuminator light sources**
- Industrial/Scientific lighting
  - Forensic investigation
  - Fluorescence and Spectroscopy
  - **Machine Vision and** inspection
  - **Projection & backlighting** systems
  - Vehicle lighting

The 4cm<sup>2</sup> Array 144 high-power LEDs



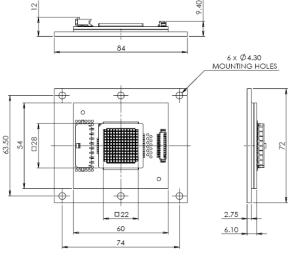


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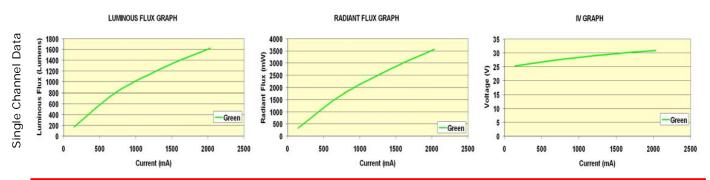
# **Technical Specification**

# **Electro-Optical Characteristics**

Channel	Sing	Single Channel			All Channels		
Item	Min	Тур	Max	Min	Тур	Max	
Rated Current If (mA)		1760			7040		
Forward Voltage Vf (Volts)	24	28	32	24	28	32	
Peak Wavelength λp (nm)	510	520	530	510	520	530	
Dominant Wavelength λd (nm)	518	528	538	518	528	538	
Spectral Width Δλ (nm)	32	37	42	32	37	42	
Total Radiant Flux PR (mW)	2350	2800		7500	9000		
Radiant Flux Density ΦR/A (mW/cm²)	486	579		1550	1860		
Total Luminous Flux ΦL (Lumens)	1000	1250		3300	4000		
Luminous Flux Density ΦL/A (Im/cm²)	207	258		682	826		
Total Electrical Power P (W)		50			200		



All measurements performed at a heatsink temperature of 25°C



# Storage Regime

Storage Temperature -20°C to +85°C

# Weight

Array 0.2kg

# **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.

### Connector Types (not supplied)

Drive Molex 0436500812 Thermistor / Feedback Molex 532611271

# 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





