ENFIS QUATTRO Mini Array Amber 595nm

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

Features

device

Mounted array for simple incorporation High power useable light

- 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

•144 LEDs in 4cm²

•Ultra bright output

•Superior dynamic range

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.

Array mounted on connectorized PCB

•Incorporating thermal measurement

Designed for passive or active cooling

Densely packed lattice CoB array

•Drop-in capability into existing luminaires

Smart Array Technology

Light output from Enfis Quattro-Mini arrays may be monitored and controlled via 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.

The 4cm² Array 144 high-power LEDs

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
 - Medical Treatment
 - PDT/dermatological therapies
 - Wound healing
 - Industrial/Scientific lighting
 - Forensic investigation
 - Fluorescence and Spectroscopy
 - Machine Vision and inspection
 - Projection & backlighting systems
 - Vehicle lighting

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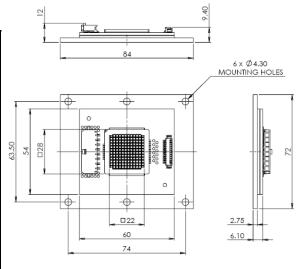


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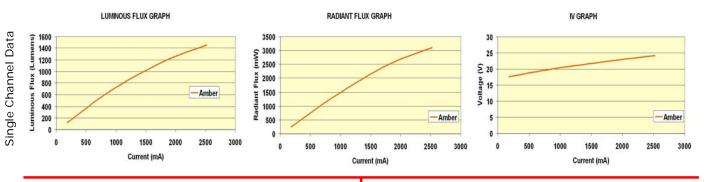
Technical Specification

Electro-Optical Characteristics

Channel	Single Channel			All Channels		
Item	Min	Тур	Max	Min	Тур	Max
Rated Current If (mA)		2200			8800	
Forward Voltage Vf (Volts)	19	23	27	19	23	27
Peak Wavelength λp (nm)	590	595	605	590	595	605
Dominant Wavelength λd (nm)	587	592	602	587	592	602
Spectral Width Δλ (nm)	10	15	20	10	15	20
Total Radiant Flux ΦR (mW)	1950	2300		6300	7400	
Radiant Flux Density ΦR/A (mW/cm ²)	403	475		1302	1529	
Total Luminous Flux ΦL (Lumens)	900	1100		2900	3500	
Luminous Flux Density ΦL/A (Im/cm ²)	186	227		599	723	
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



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