



# ENFIS Quattro Mini Array UVA

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

## Features

### Mounted array for simple incorporation

- Array mounted on connectorised 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

### High Power useable light

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

### Rugged and Proven

- Superior >50,000 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 reduces 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 via a 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 specific requirements.

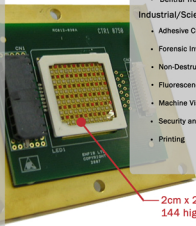
## Applications & Markets

### Medical Treatment

- Dental Treatment

### Industrial/Scientific Lighting

- Adhesive Curing
- Forensic Investigation
- Non-Destructive testing
- Fluorescence and Spectroscopy
- Machine Vision and Inspection
- Security and Surveillance
- Printing



2cm x 2cm Array:  
144 high-power LEDs

ENFIS LIMITED  
TECHNUM 2, KING'S ROAD  
SWANSEA WATERFRONT  
SWANSEA SA1 8PU UK

TEL +44 (0)1792 485960  
FAX +44 (0)1792 485537  
WWW.ENFIS.COM  
INFO@ENFIS.COM

**ENFIS** 

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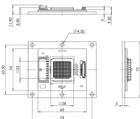


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## Technical Specification

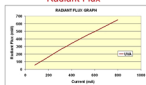
### Electro-Optical Characteristics

Channel Item	UVA		
	Min	Typ	Max
Rated Current $I_f$ (mA)		0.8	
Forward Voltage $V_f$ (Volts)	29	34	38
Peak Wavelength $\lambda_p$ (nm)	370	375	380
Spectral Width $\Delta\lambda$ (nm)	8	12	20
Total Radiant Flux $F_e$ (mW)	600	800	
Total Electrical Power P (W)		25	

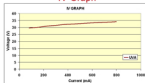


All measurements performed at heatsink temperature of 25°C

#### Radiant Flux



#### IV Graph



#### Operating / Storage Regime

Operating Temperature -10°C +45°C

Storage Temperature -20°C +85°C

#### Weight

Array 0.2kg

#### Heat Generation

Proper thermal design of the end product is essential.  
If required, support should be sought from ENFIS in this matter.  
Maximum junction temperature <125°C

#### Connector Types (not supplied)

Drive Molex 0436500812  
Thermistor / Feedback Molex 532611271

#### 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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TECHNIUM 2, KING'S ROAD  
SWANSEA WATERFRONT  
SWANSEA SA1 8PJ UK

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