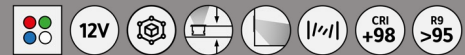


Elite Series

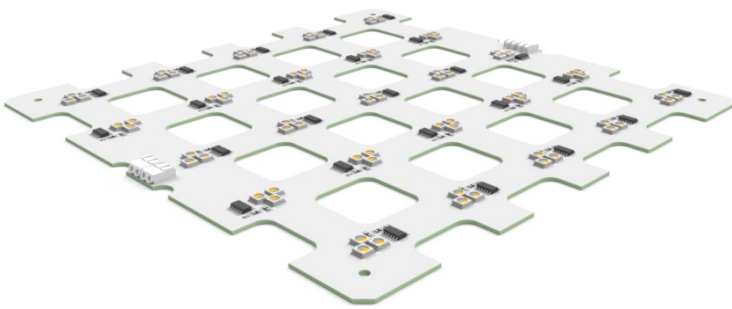
Matrix Tile 5x5 Elite RGBW

LW-EL-MX-5x5

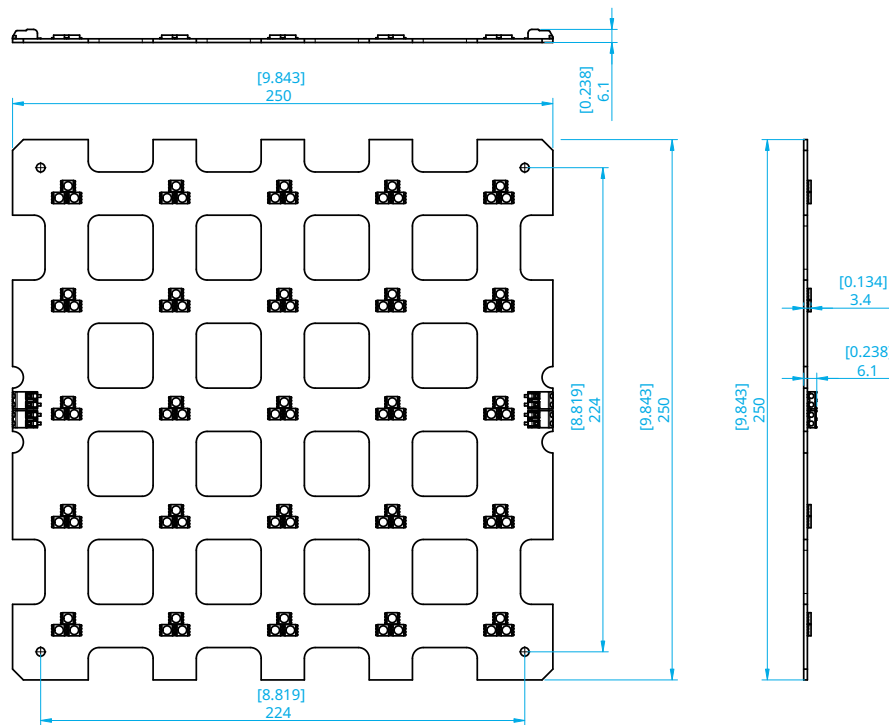
250mm square matrix tile - 12v RGBW LED
with 50mm Pixel Pitch

Key Features

- High Brightness
- RGBW for best colour mixing
- 25 pixels at 50mm pitch
- Cut-out on PCB for acoustic transparency
- WAGO push in wiring terminals
- Backup data line for reliability
- 12v power



The Matrix Tile 5x5 Elite RGBW is primarily designed to be used for backlighting behind a diffusing material. The Matrix tile can be deployed in any project where you need a wide pitch LED matrix. The Matrix Tiles have a high light output along with RGBW capability for wide colour rendering and the best possible white presentation. Each tile has a total of 75 RGBW LEDs arranged into clusters of 3 giving 25 pixels at a pitch of 50mm. The PCB tile is finished in white to maximise light output. The Matrix tile also features a backup data line so in the unlikely event that an LED driver chip fails on the board the control data will be passed onto the next in the chain ensuring that the rest of the installation will continue to operate flawlessly. The Matrix Tile is powered by 12V to minimise voltage drop issues and minimise the requirement for heavy duty power cabling to be used. Wiring is easy with the WAGO Push-in CAGE CLAMP™ connector which ensures reliability and ease of install. The tile also features 4, 4mm mounting holes and cable entry points. The Matrix tile has 40% open area allowing it to be utilised with acoustic backings.



Physical

Dimension	Metric	Imperial
Width	250mm	9.84 inches
Height	250mm	9.84 inches
Overall Thickness	6.1mm	.238 inches
Weight	167g	5.9 oz
Thermal Output Max (BTU/H)	72.5	
IP Rating	Not Rated	

Light Characteristics

Pixel Type	RGBW
LED Type	RGBW 4in1 SMD
LED Beam Angle	120 deg
LED Per Pixel	3
LED Per Matrix Tile	75
Pixel Pitch	50mm
Pixels Per Matrix Tile	25
Colour Rendering Index (CRI)	98.5
Light Output Lumens per Matrix Tile	27.1
PCB Colour	White

Electrical

Dimension	
Operating Voltage (V)	12
LED Power Typical* (W)	4.25
LED Power Max** (W)	21.25

* Playing Generative RGBW Content

** All RGBW 100% output

Control

Type	SPI WS2814
Pixels Per Tile	25
LED Pixel Drive Type	Offboard

Warranty

2 years

Connections

Connector Type: WAGO Push-In Cage Clamp™

Input		Output	
12v		12v	
Data In		Data Out	
Backup Data In		Backup Data Out	
Ground		Ground	

LED	Power	Control	App	Tech
<p>RGBW Matrix</p>	<p>12V Constant Voltage</p>	<p>SPI</p>	<p>Shallow Depth</p>	<p>ProtoPixel compatible</p>
			<p>Back Lighting</p>	<p>CRI +98</p>
				<p>R9 >95</p>
				<p>RG >95</p>