Preliminary Datasheet

2.5 mm Indoor FinePitch LED Module

Sharp LD-E251

High Impact. Streamlined Value

Bring the brilliance of fine-pitch LED to value-driven environments, without compromising on performance. Purpose-built for corporate meeting rooms and digital signage, the Sharp E Series delivers vivid content clarity and brightness for excellent visibility.

Modular in design, the E Series can be configured to any size or shape to create seamless large format surfaces, free from distracting bezels. The slim, lightweight design supports easy installation, either wall-mounted or free-standing, while front access to all components simplifies maintenance. A durable metal chassis ensures long-term reliability, in line with Sharp's reputation for engineering quality.

Designed to meet the demands of modern visual communication, the E Series combines professional-grade performance with streamlined deployment, bringing high-impact LED to a broader range of applications.

Benefits

Trouble-free installation – for wall mounted or freestanding deployments, the mechanical cabinet design makes installation quick and easy.

Large scale for perfectly detailed imagery – completely bezel-less design with high contrast rates deliver an unhindered viewing experience.

Front serviceable modules – with front access to the LED modules, maintenance is easy.

Low-profile integration – the super slim and light weight modules align with perfection to create a large digital canvas which integrates unobtrusively into any environment.

Slim design – with a flush rear profile, LED modules can be integrated very close to the wall with minimal gap necessary due to very low heat emission.

Specifications

Product Information

Product Name
Sharp LD-E251

Product Group
2.5 mm Indoor FinePitch LED Module

Order Code
LDE251

Display

Pixel Configuration
3-in-1 SMD (Black)

LED type
SMD (2121)

Pixel Pitch [mm]
2.5

Aspect Ratio
16:9

Contrast Ratio (typ.)
7000:1

Viewing Angle [°]
160 horizontal / 155 vertical

Brightness (max.) [cd/m²]
1000

Dimming Capability
256 levels

Lifetime
100000 hrs (50% brightness)

Colour Processing
18 bit

Colours [Trill.]
18000

LED Driving Method
1/27 dynamic scan

Frame Rate [Hz]
50/60

Refresh Rate [Hz]
≤ 3840

Colour Temperature [K]
3000 - 9500

Screen Resolution

Number of Pixel per m²
160000

Resolution of Pixel per module [dot]
240 x 135

Resolution of Pixel Card [px]
60 x 135

Electrical

Power Consumption typ. [W]
198 per m² (normal use)

Power Consumption max. [W]
617 per m²

Environmental Conditions

Operating Temperature [°C]
-20 to 40

Operating Humidity [%]
10 to 80

Mechanical

Dimensions (W x H x D) [mm] per module
600 x 337.5 x 29

Weight [kg]
4.7

Regulatory

Safety and Ergonomics
CE; ETL; FCC Class A; RoHS

Additional Features

Shipping Content
LED Modules (1 Cabinets, 4 Pixel Cards); Spare Parts Kit

Special Characteristics
Flush Surface SMD Design; Single Data Receiving Cards; Single Power Supplies

Manufacturer
SHARP

Serviceability
Front Service

Warranty
2 years

IP Level
IP20

Material
Aluminum Cabinet

FCC Class A

CE

RoHS

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