

# Sharp LD-EC091



## Built to last, designed to inspire.

Combining remarkable energy-efficiency with outstanding imaging performance, the LD-EC Series delivers all the benefits of advanced COB technology at a compelling price-performance ratio.

Chip-on-Board (COB) technology is engineered for high traffic environments delivering exceptional durability and long service life. LED chips are mounted directly to the substrate and sealed against dust and damage creating a smooth, reflection-free surface that's easy to clean. With rich colours and deep blacks enabled by a high contrast ratio, content is presented with vivid clarity even in bright sunlit environments.

Consuming up to 60% less power compared to standard SMD technology at the same brightness level, COB technology significantly reduces energy costs. The LD-EC Series leverages these efficiencies to make advanced LED display technology accessible for cost-conscious applications across retail, higher education, leisure and corporate environments.

A robust aluminium cabinet ensures structural stability and provides heat and fire resistance for long-term operational safety. Front-access modules simplify maintenance, and spare parts availability supports the extended service life of Sharp's high-quality LED solutions.

## Benefits

**Reduced operating costs** – Up to 60% lower power consumption than standard SMD technology at equivalent brightness, with reduced cooling demands.

**Consistent high-contrast image quality** – A 10000:1 contrast ratio delivers deep blacks and clear detail, ensuring excellent visibility even in bright environments.

**Durability and longevity** – A sealed, easy-clean surface protects against dust, moisture and projectiles, making it robust for use in high traffic areas.

**Fast and easy installation** – Established mechanical housing design and front-access modules enable quick, precise installation and simplified servicing.

# Specifications

## Product Information

### Product Name

Sharp LD-EC091

### Product Group

0.9 mm Indoor FinePitch LED Module

### Order Code

LDEC091

## Display

### LED type

FlipChip COB (0407)

### Aspect Ratio

16:9

### Pixel Pitch [mm]

0.9

### Brightness (max.) [cd/m<sup>2</sup>]

600

### Lifetime

100000 hrs (50% brightness)

### Contrast Ratio (typ.)

8000:1

### Viewing Angle [°]

160 horizontal / 140 vertical

### Dimming Capability

256 levels

### Colour Processing

14 bit

### LED Driving Method

1/60 dynamic scan

### Frame Rate [Hz]

50/60

### Refresh Rate [Hz]

≤ 3840

### Colour Temperature [K]

3000 - 9500

## Screen Resolution

### Resolution per m<sup>2</sup>

1137778

### Number of Pixel per module [dot]

640 x 360

### Number of Pixel per card [dot]

160 x 180

## Electrical

### Power Consumption typ. [W]

207 per m<sup>2</sup> (normal use)

### Power Consumption max. [W]

311 per m<sup>2</sup>

### Power Consumption typ. [BTU]

708 per m<sup>2</sup> (normal use)

### Power Consumption max. [BTU]

1062 per m<sup>2</sup>

## Environmental Conditions

### Operating Temperature [°C]

-10 to 40

### Operating Humidity [%]

10 to 80

## Mechanical

### Dimensions (W x H x D) [mm] per module

600 x 337.5 x 27.4

### Weight [kg]

4.3

## Additional Features

### Shipping Content

LED Modules (1 Cabinets, 8 Pixel Cards)

### Special Characteristics

Single Data Receiving Cards; Single Power Supplies

### Manufacturer

SHARP

### Serviceability

Front Service

**IP Level**

IP20; IP40

**Certifications**

CE; ETL; FCC Class A; RoHS; UKCA

**Warranty**

2 years

**Material**

Aluminum Cabinet



FCC Class A



RoHS



CE

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