

EL EL240.128.45 ICEBrite™ Small Graphics Display Module



Uncompromised visual performance for easy-to-read user interfaces.

The EL240.128.45 thin film electroluminescent display module provides unparalleled visual quality for both indoor and outdoor applications, as well as portable equipment. High brightness and excellent contrast in all conditions and at all viewing angles are the hallmarks of this display module.

The EL240.128.45 consists of an emissive EL glass panel and control electronics assembled into a compact, lightweight, yet rugged package for easy mounting. This display module is easily interfaced using the on-board standard LCD controller. Each pixel is individually addressable to clearly display high information content graphics and text.

Product highlights:

- On-board controller
- Broad input voltage
- Wide dimming range
- Compact size

Features and benefits:

- Superior visual quality
 - Excellent readability in all ambients
 - Rapid display response
- Wide operating temperature range
- Space-efficient mechanical package
- Low EMI emissions
- Extremely rugged and durable
- Reliable, long operating life

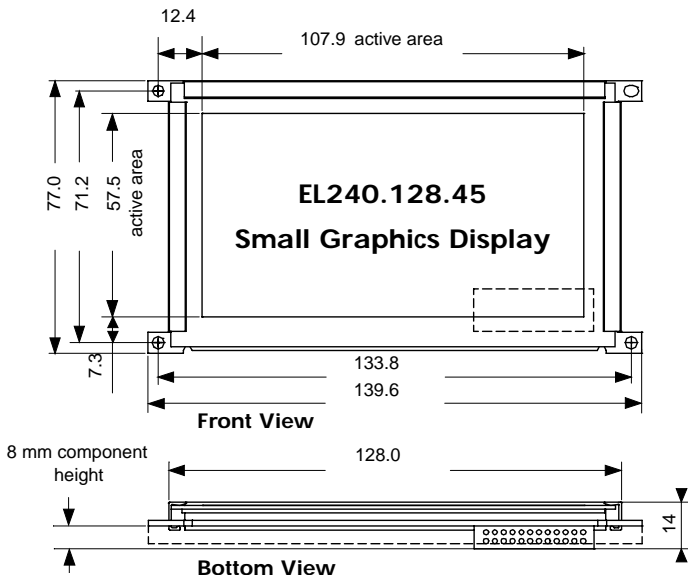
Thin film EL technology is light emitting, resulting in unequalled visual performance. High brightness and remarkable contrast over a wide viewing angle (>160°) are the hallmarks of EL technology. The solid state structure of EL produces a highly reliable, mechanically rugged flat panel display solution for the most demanding application environments.

Planar's proprietary ICE™ technology incorporates a dark, light-absorbing layer to capture ambient light and eliminate blooming and halving around adjacent pixels. The resulting image clarity provides a visual clarity equalled by no other display technology.

Extreme durability and long life of Planar's EL displays mean a lower overall cost of ownership. From the cabin of a truck to the operating room, Planar displays are a reliable, high-performance flat panel display solution. Unlike CRT and LCD backlight technologies, Planar's EL displays are field-proven to retain more than 75% of their original luminance after more than 100,000 hours of operation.

Product enhancements and value-added services are available for applications with specific requirements. To address the growing need for complete display solutions, Planar provides customer-specific value-added services. These capabilities include optical and environmental enhancements like optically bonded anti-glare and anti-reflective treatments and conformal coating of electronics. Turnkey display subsystems that integrate touch screen, interfaces, bezels, or enclosures are also available on a value-added basis.

Dimensions (all dimensions in millimeters)



EL240.128.45

Preliminary Technical Data

Display Technology	Thin film AC electroluminescent, ICEBrite™
Color	Amber
Viewing Angle	160° minimum
Response Time	< 1 ms
Areal Luminance (typical at max frame rate)	130 cd/m ² (nits)
Contrast (typical at max frame rate)	55:1 at 500 lux 4:1 at 10,000 lux
Matrix Size	240 x 128
Pixel Pitch	0.45 mm
Display External Dimensions	128 x 77 x 14 mm (W x H x D)
Weight	115 g
Display Active Area	107.9 x 57.5 mm, 4.8" diag.
Supply Voltages	+5 and +8 to +18 Vdc
Power Consumption	3 W typical at 120 Hz 5 W typical at max frame rate
MTBF	50,000 hours minimum
Temperature	<i>Operating</i> -20 to +70 °C <i>Operating survival</i> -40 to +85 °C
Humidity	<i>Operating</i> +40 °C, +93% RH
Altitude	<i>Operating</i> 0 to 18,000 m
Shock	100 g, 6 ms (3 on each of the 6 surfaces)
Vibration	5 to 500 Hz, .02 g ² /Hz random
Interface	Built-in SED 1335F LCD controller
Options and Features	Controller reset input Display blank output

Product Certifications:

The EL240.128.45 display will not inhibit the end product from obtaining the following certifications:

Safety - UL1950, CSA C22.2 No. 950, EN60950

EMC - FCC15 JB, EN55022 B when housed in a suitable enclosure.

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