

EL240.128.45-EC

ICEBrite[™] small graphics TFEL display



The EL240.128.45-EC is a TFEL display designed for use in extreme operating conditions.

Lumineq® Thin Film Electroluminescence (TFEL) displays have the widest operating temperature range of commercially available technology.

TFEL displays are ideal for use in industrial, medical, transportation, military, public safety and other demanding applications.

8-bit microprocessor (standard)

Lumineq Thin Film Electroluminescent Display

Product highlights:	Technical specifications:	
	Technology	Thin Film Electroluminescence
On-board display controller	Color	TFEL-yellow
MTBF 100,000 hours minimum	Viewing angle	179°, any viewing directions
High brightness and excellent contrast	Response time	< 1 ms
 Broad input voltage range from 8 to 18 VDC 	Luminance	130 cd/m² typical areal @ 240 Hz
 Wide temperature range from -40 to +70 °C 	Contrast	97:1 typical @ 500 lux @ 240 Hz
Built-in Epson S1D13700 display controller		13:1 typical @ 5,000 lux @ 240 Hz
	Resolution	240 × 128 pixels
General TFEL features and benefits:	Pixel pitch	0.45 × 0.45 mm
	Weight	115 g
	Display size	140 × 77 × 15 mm
 Instant ON in cold and hot temperatures 	Active area	108 × 58 mm
 No need for heating and cooling 	Supply voltages	5 and 818 VDC
Very long lifetime	Power	3.1 W typical @ 120 Hz
• Extremely stable brightness – measured 100,000 hours		5.8 W typical @ 240 Hz
with > 85% left of initial luminance	MTBF	> 100,000 hours
 TFEL display brightness, contrast, viewing angle and 	Temperature	Operating: -40 to +70 °C
response time are the same across the entire operating		Survival: -40 to +85 °C
temperature range		Storage: -50 to +105 °C
• Wide viewing angle > 179° with crisp and clear image	Humidity	93% RH max @ 40 °C, oper., IEC 60068-2-78
• Very fast response time, < 1 ms	Altitude	18,000 m, oper., IEC 60068-2-13
Extremely rugged and solid TFEL display structure	Shock	100 g-force, 6 ms, IEC 60068-2-14, test Ea.
Very long production life time	Vibration	5 to 500 Hz, 0.02 g ² /Hz random
Extremely wide operating temperature range		IEC 60068-2-64, test Fh.

Ordering Information:		
Product	Part number	Features
EL240.128.45-EC	996-0301-05LF	Built-in Epson S1D13700 controller, locking connector, dimming
EL240.128.45-EC CC	996-0301-06LF	EL240.128.45-EC with Conformal Coating

· Extremely wide operating temperature range

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