

## EL240.128.45

## ICEBrite™ small graphics TFEL display



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

Lumineq<sup>®</sup> 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.

## **Lumineq Thin Film Electroluminescent Display**

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Product highlights:	Technical specifications:	
<ul> <li>On-board LCD controller makes the display easy to interface with embedded systems</li> <li>MTBF 100,000 hours minimum</li> <li>High brightness and excellent contrast in all conditions</li> <li>Broad input voltage range from 8 to 18 VDC</li> </ul>	Technology	Thin Film Electroluminescence
	Color	TFEL-yellow
	Viewing angle	179°, any viewing directions
	Response time	< 1 ms
	Luminance	130 cd/m² typical areal @ 240 Hz
	Contrast	97:1 typical @ 500 lux @ 240 Hz
		13:1 typical @ 5,000 lux @ 240 Hz
General TFEL features and benefits:	Resolution	240 × 128 pixels
	Pixel pitch	0.45 × 0.45 mm
<ul> <li>Instant ON in cold and hot temperatures</li> <li>No need for heating and cooling</li> <li>Very long lifetime</li> <li>Extremely stable brightness – measured 100,000 hours with &gt; 85% left of initial luminance</li> <li>TFEL display brightness, contrast, viewing angle and response time are the same across the entire operating</li> </ul>	Weight	115 g
	Display size	140 × 77 × 15 mm
	Active area	108 × 58 mm
	Supply voltages	5 and 818 VDC
	Power	3.1 W typical @ 120 Hz
		5.8 W typical @ 240 Hz
	MTBF	> 100,000 hours
	Temperature	Operating: -40 to +70 °C
temperature range		Survival: -40 to +85 °C
Wide viewing angle > 179° with crisp and clear image Very fast response time, < 1 ms Extremely rugged and solid TFEL display structure Very long production life time Extremely wide operating temperature range		Storage: -50 to +105 °C
	Humidity	93% RH, oper., IEC 68-2-3
	Altitude	18,000 m, oper., IEC 68-2-13
	Shock	100 g-force, 6 ms, IEC 68-2-27
	Vibration	5 to 500 Hz, 0.02 g²/Hz random
		IEC 68-2-36, test Fdb
	Interface	8-bit microprocessor (standard)

Ordering Information.		
Product	Part number	Features
EL240.128.45		Built-in RA8835A controller, locking connector, dimming

EL240.128.45 CC 996-0301-03LF

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Conformal coating