

EL240.128.45

ICEBrite™ small graphics TFEL display



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

Lumineg® 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 MTBF 100,000 hours minimum High brightness and excellent contrast Broad input voltage range from 8 to 18 VDC Wide temperature range from -40 to +70 °C 	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
	Weight	115 g
 Instant ON in cold and hot temperatures 	Display size	140 × 77 × 15 mm
 No need for heating and cooling 	Active area	108 × 58 mm
Very long lifetime	Supply voltages	5 and 818 VDC
• Extremely stable brightness – measured 100,000 hours	Power	3.1 W typical @ 120 Hz
with > 85% left of initial luminance		5.8 W typical @ 240 Hz
 TFEL display brightness, contrast, viewing angle and 	MTBF	> 100,000 hours
response time are the same across the entire operating	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 max @ 40 °C, oper., IEC 60068-2-78
	Altitude	18,000 m, oper., IEC 60068-2-13
	Shock	100 g-force, 6 ms, IEC 60068-2-14, test Ea.
	Vibration	5 to 500 Hz, 0.02 g ² /Hz random
		IEC 60068-2-64, test Fh.

Ordering	Information:
Product	Part r

Product	Part number	Features
EL240.128.45	996-0301-01LF	Built-in RA8835A controller, locking connector, dimming
EL240.128.45 CC	996-0301-03LF	EL240.128.45 with Conformal coating
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

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