

## **EL160.80.50-ET SPI**

## **ICEBrite™** small graphics TFEL display



The EL160.80.50-ET SPI 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.

## **Lumineq Thin Film Electroluminescent Display**

## Product highlights: Thin Film Electroluminescence Technology TFEL-yellow • Wide temperature range from -50 to +70 °C • SPI Interface · Extremely rugged design · High brightness · Locking connector **General TFEL features and benefits:** • Instant ON in cold and hot temperatures • No need for heating and cooling

- · Very long lifetime
- Extremely stable brightness measured 100,000 hours with > 85% left of initial luminance
- TFEL display brightness, contrast, viewing angle and response time are the same across the entire operating temperature range
- 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

	Viewing angle	179°, any viewing directions
	Response time	< 1 ms
	Luminance	107 cd/m² typical areal @ 240 Hz
	Contrast	50:1 typical @ 500 lux
	Resolution	160 × 80 pixels
	Pixel pitch	0.50 × 0.50 mm
	Weight	77 g
	Display size	109 × 57 × 21 mm
	Active area	80 × 40 mm
	Supply voltages	5 and 12 VDC
	Power	2.0 W typical @ 60 Hz
S		2.7 W typical @ 120 Hz
		4.4 W typical @ 240 Hz
	MTBF	> 50,000 hours
g	Temperature	Operating: -50 to +70 °C
		Storage: -60 to +105 °C
	Humidity	93% RH, oper. @ +40 °C, IEC 60068-2-78
	Altitude	18,000 m, oper., IEC 60068-2-13
	Shock	100 g-force, 4 ms, IEC 60068-2-27, test Ea.
	Vibration	5 to 500 Hz, 0.10 g²/Hz random
		IEC 680068-2-64, test Fh.
	Interface	SPI (Serial Peripheral Interface Bus)
	Ontions	Conformal coating

Ordering Information:				
	Product	Part number	Features	
	EL160.80.50-ET SPI	EL00101300	SPI Interface	
	EL160.80.50-ET SPI CC	EL00101400	SPI Interface, Conformal coating	

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