

## EL160.80.50

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



The EL160.80.50 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**

Product highlights:		Technical specifications:		
<ul> <li>Wide temperature range from -50 to +70 °C</li> <li>Small mechanical package</li> <li>Low power capability</li> </ul>			Technology	Thin Film Electroluminescence
			Color	TFEL-yellow
			Viewing angle	179°, any viewing directions
			Response time	< 1 ms
Extremely rugged		Luminance	107 cd/m² typical areal @ 240 Hz	
,			Contrast	50:1 typical @ 500 lux
General TFEL features and benefits:			Resolution	160 × 80 pixels
			Pixel pitch	0.50 × 0.50 mm
			Weight	77 g
Instant ON in cold and hot temperatures		Display size	109 × 57 × 21 mm	
<ul> <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 temperature range</li> <li>Wide viewing angle &gt; 179° with crisp and clear image</li> <li>Very fast response time, &lt; 1 ms</li> <li>Extremely rugged and solid TFEL display structure</li> <li>Very long production life time</li> <li>Extremely wide operating temperature range</li> </ul>			Active area	80 × 40 mm
			Supply voltages	5 and 12 VDC
			Power	2.0 W typical @ 60 Hz
				2.7 W typical @ 120 Hz
				4.4 W typical @ 240 Hz
			MTBF	> 50,000 hours
			Temperature	Operating: -50 to +70 °C (ET)
				Operating: -25 to +65 °C (IN) Operating: 0 to +55 °C (Standard)
				Storage: -60 to +105 °C (Standard)
				Storage: -40 to +85 °C (IN, Standard)
			Humidity	93% RH max. @ 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.
Ordering Information:			Vibration	5 to 500 Hz, 0.10 g²/Hz random
				IEC 60068-2-64, test Fh
Product	Part number	Features	Interface	4-bit LCD-type timing
EL160.80.50	996-0267-15LF	Standard	Options	conformal coating, locking connector, dimming
		Inductrial		

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product, dimming Extended temperature

range, dimming, locking connector ET with conformal

coating

EL160.80.50-IN

EL160.80.50-ET

EL160.80.50-ET CC

996-0267-20LF

996-0267-18LF

996-0267-17LF