



### **EL640.480-AF LVDS**

## **ICEBrite™ TFEL display**



EL640.480-AF LVDS is a VGA-display for use in extreme operating conditions.

Instant-on performance from -60 °C to +105 °C (from -76 °F to +221 °F).

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:

- Very wide temperature range from -60 to +105 °C
- LVDS Interface
- Standard VGA resolution
- Locking connector
- Grayscale support: 4 to 5 gray scales

#### **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

Technical specifications:		
Technology	Thin Film Electroluminescence	
Color	TFEL-yellow	
Viewing angle	179°, any viewing directions	
Response time	< 1 ms	
Luminance	60 cd/m² typical areal	
Contrast	50:1 typical at 500 lux	
Resolution	640 × 480 pixels	
Pixel pitch	0.202 × 0.202 mm	
Weight	300 g	
Display size	182 × 129 × 20 mm	
Active area	129.3 × 97.0 mm	
Supply voltages	12 VDC	
Power	4.5 W typical	
MTBF	>50,000 hours	
Temperature	Operating survival: -60 to +105 °C	
	Operating, continuous use: -60 to +85 °C	
	Storage: -60 to +110 °C	
Humidity	93 % RH, +40 °C operating, IEC 60068-2-78	
Altitude	18,000 m, operating, IEC 60068-2-13	
Damp heat	25-55°C, 95 % RH, non-operating.	
	IEC 60068-2-30	
Shock	100 g-force, 4 ms, IEC 60068-2-27, test Ea.	
Vibration	5 to 500 Hz, $0.05 \text{ g}^2/\text{Hz}$ random	
	IEC60068-2-64, test Fh	
Interface	LVDS Interface	
Options	Anti-glare film, Conformal coating	

Ordering Information:			
Product	Part number	Features	
EL640.480-AF LVDS	EL00027500	LVDS interface	
EL640.480-AF LVDS CC	EL00027501	LVDS Interface, Conformal coating	

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