

EL640.480-AF LVDS

ICEBrite™ TFEL display



EL640.480-AF LVDS is a VGA-display 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

Technical specifications:

Product highlights:

- Very wide temperature range from -60 to +85 °C
- Standard VGA resolution
- Anti-glare film and conformal coating options
- LVDS interface

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

Technology	Thin Film Electroluminescence		
Color	TFEL-yellow		
Viewing angle	179°, any viewing directions		
Response time	. 1		
Luminance	50 cd/m² typical areal @ 120 Hz		
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 @ 120 Hz		
MTBF	>50,000 hours		
Temperature	Operating: -60 to +85 °C		
	Storage: -60 to +110 °C		
Relative 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 680068-2-27, test Ea.		
Vibration	5 to 500 Hz, 0.05 g ² /Hz random		
	IEC680068-2-64, test Fh		

Anti-glare film, Conformal coating

LVDS Interface

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Product	Part number	reatures
EL640.480-AF LVDS	EL00027500	LVDS interface, extended temperature range, locking connector, dimming

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Interface