Technical data sheet

EL160.80.50



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



## The EL160.80.50 is a TFEL display designed for use in extreme operating conditions.

Lumineq's 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: Technology Thin Film Electroluminescence Color Amber • Wide temperature range from -40 to +65 °C • Small mechanical package 179°, any viewing directions Viewing angle Response time < 1 ms Low power capability Luminance 107 cd/m<sup>2</sup> typical areal @ 240 Hz Contrast 50:1 typical @ 500 lux eneral TFEL features and benefits: Resolution 160 × 80 pixels Pixel pitch 0.50 × 0.50 mm · Instant ON in cold and hot temperatures 77 g Weight • No need for heating and cooling **Display size** 109 × 57 × 21 mm · Very long lifetime 80 × 40 mm Active area • Extremely stable brightness - measured 100,000 hours Supply voltages 5 and 12 VDC with > 85% left of initial luminance Power 2.0 W typical @ 60 Hz • TFEL display brightness, contrast, viewing angle and 2.7 W typical @ 120 Hz 4.4 W typical @ 240 Hz response time are the same across the entire operating **MTBF** > 50,000 hours temperature range Operating: -40 to +65 °C (ET) Temperature • Wide viewing angle > 179° with crisp and clear image Operating: -25 to +65 °C (IN) • Very fast response time, < 1 ms Operating: 0 to +55 °C (standard) • Extremely rugged and solid TFEL display structure Storage: -40 to +95 °C Very long production life time Humidity 93% RH, oper., IEC 68-2-3 · Extremely wide operating temperature range Altitude 18,000 m, oper., IEC 68-2-13 Shock 100 g-force, 6 ms, IEC 68-2-27 5 to 500 Hz, 0.02 g<sup>2</sup>/Hz random Vibration **Ordering Information:** IEC 68-2-36, test Fdb Product Part number Features Interface 4-bit LCD-type timing EL160.80.50 996-0267-15LF Standard Options conformal coating, locking connector, dimming Industrial EL160.80.50 IN 996-0267-20LF product, dimming IN with locking EL160.80.50 IN LC CC 996-0267-21LF connector and conformal coating Extended temperature EL160.80.50 ET 996-0267-18LF range, dimming, locking connector

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ET with conformal

coating

996-0267-17LF

EL160.80.50 ET CC