



EL640.480-AM8 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

Product highlights:

- Extremely low operating temperature: -60 °C
- Standard VGA
- 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
- Extremely wide operating temperature range

Ordering Information:

| Product | Part number | Features |
|---------------------|---------------|------------------------|
| EL640.480-AM8 IN | 996-0268-27LF | Industrial temp. range |
| EL640.480-AM8 ET | 996-0268-16LF | Extended temp. range |
| EL640.480-AM8 ET CC | 996-0268-20LF | ET + conformal coating |

Technical specifications:

| | |
|-----------------|--|
| Technology | Thin Film Electroluminescence |
| Color | TFEL-yellow |
| Viewing angle | 179°, any viewing directions |
| Response time | < 1 ms |
| Luminance | 49 cd/m ² typical areal @ 120 Hz |
| Contrast | 30:1 typical at 500 lux |
| Resolution | 640 × 480 pixels |
| Pixel pitch | 0.33 × 0.33 mm |
| Weight | 650 g |
| Display size | 266 × 192 × 20 mm |
| Active area | 211.1 × 158.3 mm |
| Supply voltages | 5 and 12 VDC (standard) 24 VDC option |
| Power | 11 W typical @ 120 Hz |
| MTBF | > 50,000 hours |
| Temperature | EL640.480-AM8 ET Operating: -60 to +85 °C Operating survival: -60 to +105 °C Storage: -60 to +110 °C EL640.480-AM8 IN Operating: -25 to +65 °C Operating Survival: -40 to +70 °C Storage: -40 to +75 °C |
| Humidity | 93% RH, oper. @ +40 °C, IEC 60068-2-78 |
| Altitude | 18,000 m, oper., IEC 60068-2-13 |
| Shock | 100 g-force, 6 ms, IEC 60068-2-27, test Ea. |
| Vibration | 5 to 500 Hz, 0.02 g ² /Hz random IEC 60068-2-64, test Fh. |
| Interface | 8-bit dual panel |
| Options | Anti-glare film, conformal coating, locking connectors, dimming |

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