



The EL512.256-H is a TFEL display 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:

- Wide operating temperature range: -40 to +85 °C
- Broad input voltage range: 11...30 VDC
- Wide screen

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

Ordering Information:

Product	Part number	Features
EL512.256-H2	997-3214-00LF	Standard
EL512.256-H2 FRA	997-3215-00LF	Aluminum frame
EL512.256-H2 FRB	997-3216-00LF	Steel frame
EL512.256-H3	996-5052-00LF	Industrial temp. range
EL512.256-H3 FRA	996-5059-00LF	Aluminum frame
EL512.256-H3 FRB	996-5060-00LF	Steel frame
EL512.256-H3 ET FRB	997-3216-00LF	Extended temp. range

Technical specifications:

Technology	Thin Film Electroluminescence
Color	Amber
Viewing angle	179°, any viewing directions
Response time	< 1 ms
Luminance	65 cd/m ² typical areal
Resolution	512 × 256 pixels
Pixel pitch	0.25 × 0.25 mm
Weight	400 g
Display size	233 × 136 × 16.5 mm
Active area	195.1 × 97.5 mm
Supply voltages	5 and 11...30 VDC
Power	6.0 W, typical 4.0 W, typical (low power mode)
MTBF	> 30,000 hours
Temperature	-H2 series: Operating: 0 to +55 °C Storage: -40 to +75 °C -H3 series: Operating: -25 to +65 °C Storage: -40 to +75 °C -H3 ET FRB: Operating: -40 to +85 °C Storage: -40 to +85 °C
Humidity	93% RH, oper., IEC 68-2-3
Altitude	15,000 m, oper., above sea level
Shock	100 g-force, 6 ms, IEC 68-2-27
Vibration	20 to 500 Hz, 0.05 g ² /Hz random
Interface	EL standard, 1 or 2 bits/clock

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