



The EL320.240.36 is a QVGA-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 temperature range from -40 to +65 °C
- Standard quarter-VGA
- Locking connector and analog dimming options

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	Amber
Viewing angle	179°, any viewing directions
Response time	< 1 ms
Luminance	50 cd/m ² typical areal @ 120 Hz
Contrast	31:1 typical at 500 lux
Resolution	320 × 240 pixels
Pixel pitch	0.36 × 0.36 mm
Weight	183 g
Display size	148 × 105 × 19 mm
Active area	115 × 86 mm
Supply voltages	5 and 12 VDC
Power	7.0 W typical @ 120 Hz
MTBF	> 50,000 hours
Temperature	Operating: -40 to +65 °C (ET) Operating: -25 to +65 °C (IN) Operating: 0 to +65 °C (standard) Storage: -40 to +85 °C
Humidity	93% RH, oper., IEC 68-2-3
Altitude	18,000 m, oper., IEC 68-2-13
Shock	100 g-force, 6 ms, IEC 68-2-27
Vibration	5 to 500 Hz, 0.02 g ² /Hz random IEC 68-2-36, test Fdb
Interface	4-bit LCD-type timing
Options	Anti-glare film, conformal coating, locking connectors, dimming

Ordering Information:

Product	Part number	Features
EL320.240.36	996-0273-01LF	Standard
EL320.240.36 AG	996-0273-60LF	Anti-glare film
EL320.240.36 AGL	996-0273-62LF	AG + locking connector
EL320.240.36 IN	996-0273-02LF	Industrial product, dimming
EL320.240.36 IN AG	996-0273-61LF	IN + anti-glare film
EL320.240.36 ET	996-0273-03LF	Extended temperature range
EL320.240.36 ET CC	996-0273-30LF	ET + conformal coating

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