

EL640.480-AA1

Multi-color TFEL display



The EL640.480-AA1 is a multi-color 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, defense, public safety and other demanding applications.

Lumineq Thin Film Electroluminescent Display

Product highlights:

- Wide temperature range from -60 to +85 °C
- Rugged solid state multi-color TFEL display
- Standard VGA
- Analog dimming
- Conformal coating option

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
- Very fast response time, < 1 ms
- Extremely rugged and solid TFEL display structure
- Wide operating temperature range

Ordering Information:

Product	Part number	Features
EL640.480-AA1	EL00004710	Standard
EL640.480-AA1 CC	EL00004720	Conformal Coating

Technical specifications:

Technology	Thin Film Electroluminescence
Color	Multicolor red/green/yellow
Viewing angle	>160°, any viewing directions
Response time	< 1 ms
Luminance	21 cd/m ² typical areal
Contrast	10:1 minimum at 500 lux
Resolution	640 × 480 pixels
Pixel pitch	0.33 × 0.33 mm
Weight	800 g
Display size	262 × 205 × 22 mm
Active area	211.1 × 158.3 mm
Supply voltages	5 and 12 VDC
Power	10 W typical
MTBF	> 50,000 hours
Temperature	Operating: -60 to +85 °C Storage: -60 to +105 °C
Relative humidity	93% RH, oper. @ +40 °C, IEC 60068-2-78
Damp heat	+25 to +55 °C, 95 % RH, Non-operating, IEC 60068-2-30. Valid for CC-version.
Altitude	18,000 m (58,000 ft.), oper., IEC 60068-2-13
Shock	100 g-force, 6 ms, IEC 60068-2-27, test Ea.
Vibration	20 to 500 Hz, 0.05 g ² /Hz random IEC 60068-2-64, test Fh.
Interface	VGA mode TFT-LCD mode 4-bit LCD
Compatibility	Form-fit-function compatible with previous generation EL640.480-AA1 display
Options	Conformal Coating

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