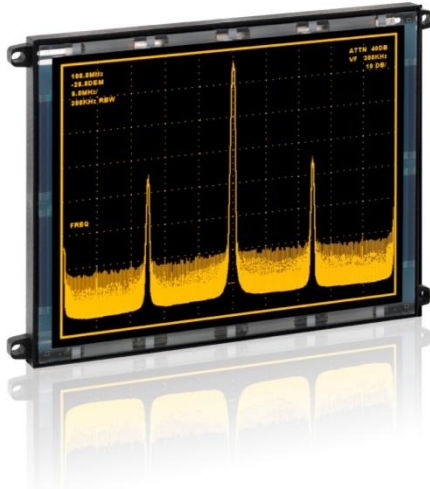


EL640.480-AG1

ICEBrite™ TFEL display



EL640.480-AG1 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, defense, public safety and other demanding applications.

Lumineq Thin Film Electroluminescent Display

Product highlights:

- Temperature range from -60 to +105 °C (ET)
- Standard VGA
- Locking connector (ET)

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
- Extremely wide operating temperature range

Ordering Information:

Product	Part number	Features
EL640.480-AG1	996-0269-00LF	Standard
EL640.480-AG1 ET	996-0269-03	Extended temp. range
EL640.480-AG1 ET CC	996-0269-05	ET with conformal coating

Technical specifications:

Technology	Thin Film Electroluminescence
Color	TFEL-yellow
Viewing angle	179°, any viewing directions
Response time	< 1 ms
Luminance	55 cd/m ² typical areal @ 120 Hz
Contrast	33:1 typical at 500 lux
Resolution	640 × 480 pixels
Pixel pitch	0.258 × 0.258 mm
Weight	AG1 450 g, AG1 ET 380 g
Display size	218 × 156 × 20 mm
Active area	165.1 × 123.8 mm
Supply voltages	5 and 12 VDC (Standard) 8...18 VDC (ET)
Power	6.5 W typical @ 120 Hz
MTBF	> 50,000 hours
Temperature	Operating Survival: -60 to +105 °C (ET) Operating Survival: -20 to +65 °C (Standard) Operating, continuous use: -60 to +85 °C (ET) Operating, cont. use: -20 to +65 °C (Standard) Storage: -60 to +110 °C (ET) Storage: -40 to +75 °C (Standard)
Humidity	93% RH, oper. @ +40 °C, IEC 60068-2-78
Altitude	18,000 m, oper., IEC 60068-2-13
Shock	100 g-force, 4 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 or Anti-reflective film, Tempered glass, Resistive touch screen, ITO glass

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