



The EL320.256-F 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:

- Broad input voltage range: 11...30 VDC
- High-bright display

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
EL320.256-F6	996-5076-00LF	Non-ICEBrite™
EL320.256-FD6	996-5087-00LF	ICEBrite™
EL320.256-FD7	996-5089-00LF	ICEBrite™, high-bright
EL320.256-FD7 HB	996-5089-03LF	ICEBrite™, high-bright plus
EL320.256-FD8 V2	996-5091-00LF	Special mounting

Technical specifications:

Technology	Thin Film Electroluminescence
Color	TFEL-yellow
Viewing angle	179°, any viewing directions
Response time	< 1 ms
Luminance	77 cd/m ² typical areal (-F6) 25 cd/m ² typical areal (-FD6) 55 cd/m ² typical areal (-FD7) 81 cd/m ² typical areal (-FD7 HB) 105 cd/m ² typical areal (-FD8 V2)
Resolution	320 × 256 pixels
Pixel pitch	0.30 × 0.30 mm
Weight	260 g (-F6 and -FD6) 310 g (-FD7, -FD7 HB, FD8 V2)
Display size	130 × 110 × 31.1 mm (-F6 and -FD6) 130 × 110 × 33.0 mm (-FD7 and -FD7 HB) see oper. manual for -FD8 V2
Active area	95.9 × 76.7 mm
Supply voltages	5 and 11...30 VDC
Power	6.0 W, typical (-F6, -FD6, -FD7) 7.5 W, typical (-FD7 HB) 9.0 W, typical (-FD8 V2)
MTBF	> 50,000 hours (-F6, -FD6, -FD7, -FD7 HB) > 30,000 hours (-FD8 V2)
Temperature	-F6, -FD6, -FD7, -FD7 HB: Operating: -25 to +65 °C Survival: -40 to +70 °C Storage: -40 to +85 °C -FD8 V2: Operating (low): -25 °C Survival (low): -40 °C Storage: -40 to +75 °C
Humidity	93% RH, oper., IEC 68-2-3
Altitude	15,000 m, oper., above sea level
Shock	100 g-force, 4 ms, IEC 68-2-27
Vibration	20 to 500 Hz, 0.05 g ² /Hz random IEC 68-2-36, test Fdb
Interface	EL standard, 1 bit/clock

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