Technical data sheet



EL320.240.36-HB



ICEBrite™ small graphics TFEL display

The EL320.240.36-HB is a high-bright QVGA-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, military, public safety and other demanding applications.

Product highlights:			Technical specifications:	
			Technology	Thin Film Electroluminescence
 Wide temperature range from -40 to +95 °C Sunlight readability: 150 cd/m² Broad input voltage range: 818 VDC Analog dimming 		+95 °C	Color	TFEL-yellow
			Viewing angle	179°, any viewing directions
		С	Response time	< 1 ms
			Luminance	150 cd/m ² typical areal @ 250 Hz
SAE J-1455 complia	ant		Contrast	90:1 typical at 500 lux
				8:1 typical at 10,000 lux
General TFEL features and benefits:				2:1 typical at 50,000 lux
General TFEL leatures and benefits.		Resolution	320 × 240 pixels	
		Pixel pitch	0.36 × 0.36 mm	
 Instant ON in cold and hot temperatures 			Weight	183 g
 No need for heating and cooling 			Display size	183 g 148 × 105 × 20 mm
Very long lifetime			Active area	115 × 86 mm
• Extremely stable brightness – measured 100,000 hours			Supply voltages	5 and 818 VDC
with > 85% left of initial luminance			Power	3.5 W typical @ 120 Hz
• TFEL display brightness, contrast, viewing angle and response time are the same across the entire operating				5.5 W typical @ 250 Hz
			MTBF	> 50,000 hours
temperature range			Temperature	Operating: -40 to +85 °C
 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:				Survival: -50 to +95 °C
				Storage: -50 to +105 °C
			Humidity	93% RH, oper. @ +40 °C, IEC 60068-2-78
			Altitude	18,000 m, oper., IEC 60068-2-13
			Shock	100 g-force, 6 ms, IEC 60068-2-27, test Ea.
			Vibration	5 to 500 Hz, 0.05 g ² /Hz random IEC 60068-2-64, test Fh.
			Interface	4-bit LCD-type timing
Product	Part number	Features	Options	Anti-glare film, conformal coating
EL320.240.36-HB	996-0292-00LF	Standard	•	
EL320.240.36-HB CC	996-0292-06LF	Conformal		

Coating

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