

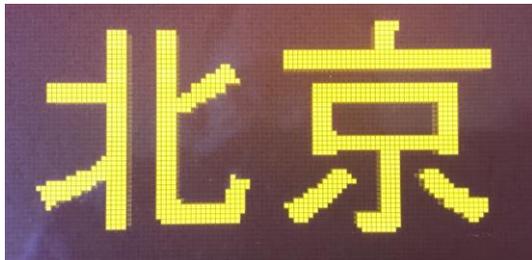


ELT160.60.100-07NC

Transparent matrix display for in-glass laminated applications



ELT160.60.100 display when laminated; flex cables hidden behind a silk screen



Being a matrix display, ELT160.60.100 is capable of displaying an arbitrary character set.

ELT160.60.100-07NC is a lamination proof transparent matrix display. The product comes with a display glass and four FPC (also known as flex cables, two for row driving, two for column driving) and driving electronics. With the product, customers of Lumineq® technology can display data in free format in a transparent setting, e.g. in windshields and backside windows of off-highway vehicles.

The product features:

- Glass panel with 160 x 60 pixels (columns and rows, respectively).
- Four FPCs bonded permanently to the glass, with connection pads in the driving electronics end
- Driving electronics board (ECA) with four connectors to FPCs. ECA size approx. 149mm x 115mm.
- Documentation on the interface, mechanical and optical characteristics and handling instructions

Thickness of the glass is 0.7mm. There is no cover glass to enable lamination with optically good quality. Pixel pitch is 1mm x 1mm. Interface of the display is SPI.

NOTE: For a PC/USB based driving and for a power supply, additional product "ELT160.60.100-07NC Demo Kit" (product number EL00063100) is needed.

ELT160.60.100-07NC Transparent Lamination-Proof Matrix Display

Product highlights:

- Enables program-generated, arbitrary information displayed in a laminated setting, e.g. in a vehicle windshield.
- Fed from one side only, enabling positioning to any side, top or bottom of the glazing.
- Relatively large pixel size enables observation of the displayed information from greater distances.
- Withstands standard industrial lamination processes.
- Can be viewed outdoors by shadowing direct sunlight.
- Comes with an SPI interface for broad applicability.

Display Technical specifications:

Technology	Inorganic Thin Film Electroluminescence
Color	TFEL-yellow
Pixels	160 columns and 60 rows of square pixels.
Pixel Pitch/Size	pitch 1mm x 1mm, size 0,8mm x 0,8mm
Viewing angle	2x 179°, (two sides - substrate is transparent)
Response time	< 1 ms
Luminance	up to 100 cd/m ² , depending on content
Contrast	ambient (background lighting) dependent; daylight readable in shadow areas
Transparency when laminated	≥ 70% when laminated properly/with cover glass; depends on the surrounding glazing
Glass panel size	90mm (height) x 224mm (width)
Power consumption	Typical, 20W, abs. max 36W
Temperature	-60 °C to +85 °C

Ordering Information:

Product	Part number	Features	Warranty
ELT160.60.100-07NC	EL00045100	glass, FPCs and driving electronics	3 months; not covering lamination process or laminated product

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