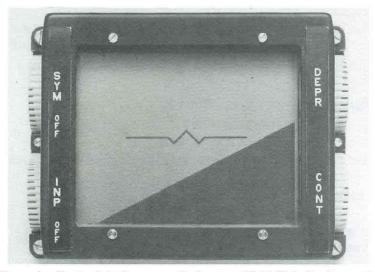


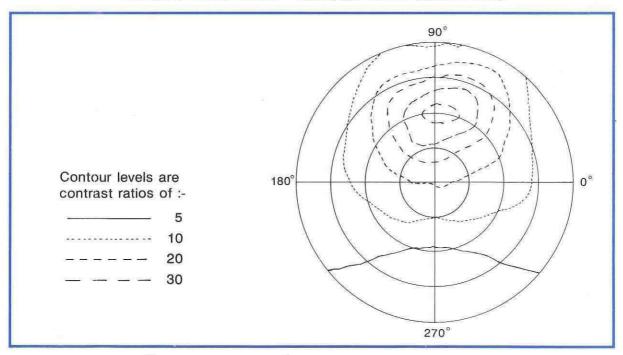
GEC's active matrix technology offers significant advantages for high end product applications, such as avionics.

A resistively coupled transistor (RCT) architecture provides fault tolerance and therefore superior 'in the field' reliability.

The glass compatible polysilicon process gives devices with high speed, stability to light and electrical stress, and the potential for integrated drive electronics.



Example of attitude indicator — display type 7RAMB (reflective mode)



Character isocontrast plot for above display in transmissive mode

Note: optimised for non-normal viewing





RCT Polysilicon Active Matrix

LCDs

Specification for display 7RAMB (glass only)

Type:

monochrome bilevel

Pixels:

224 columns × 180 rows

Resolution:

pixel pitch: 0.38 mm both axes

Size:

effective display area:

 $85.1 \text{ mm} \times 68.4 \text{ mm}$

(4.3 inch diagonal)

glass size:

100 x 85 mm

Cell configuration:

transmissive mode normally white

off-normal viewing

(Alternative configurations available including reflective / transflective etc)

Contrast ratio:

max pix > 50:1 max character > 30:1

Viewing angle:

angle over which character contrast > 10:1

(from normal)

horizontal ±65° vertical +20/-70°

% Transmission:

display area > 15%, pixel > 25%

(550nm)

Response time:

<50 msec a 20°C

Operational temperature: $\sim 0^{\circ}$ to 65° (glass only)

- Notes: 1. Considerable LC cell modelling and design expertise is available to optimise performance to suit application
 - 2. Non-avionic modules available for demonstration
 - 3. Other designs available please see associated literature

For further information please contact S A Haws on 081-908 9128 / 9149

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