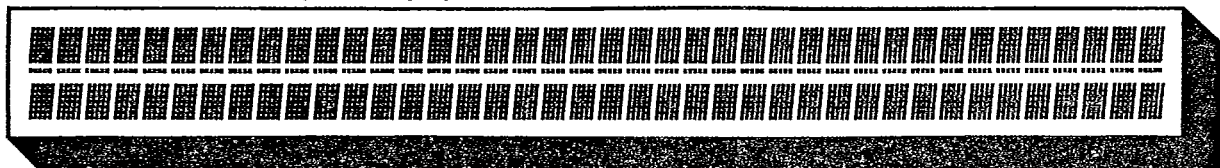
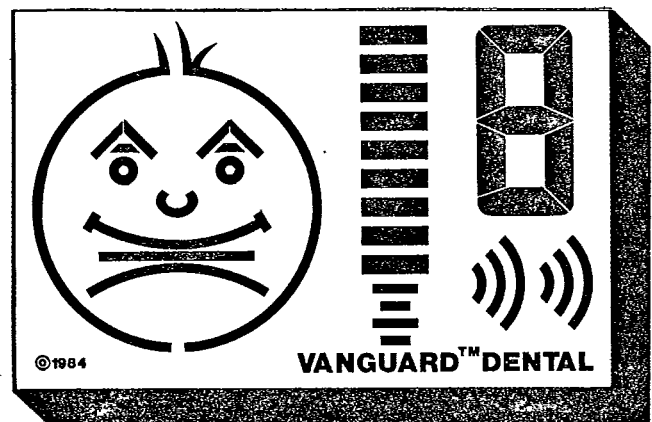
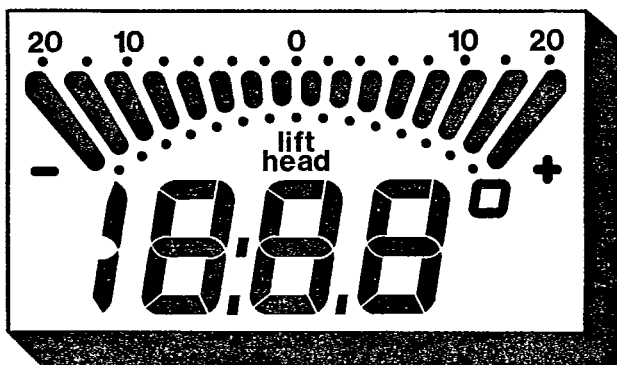
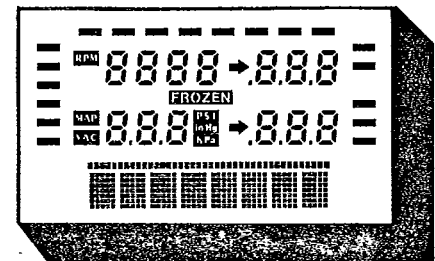
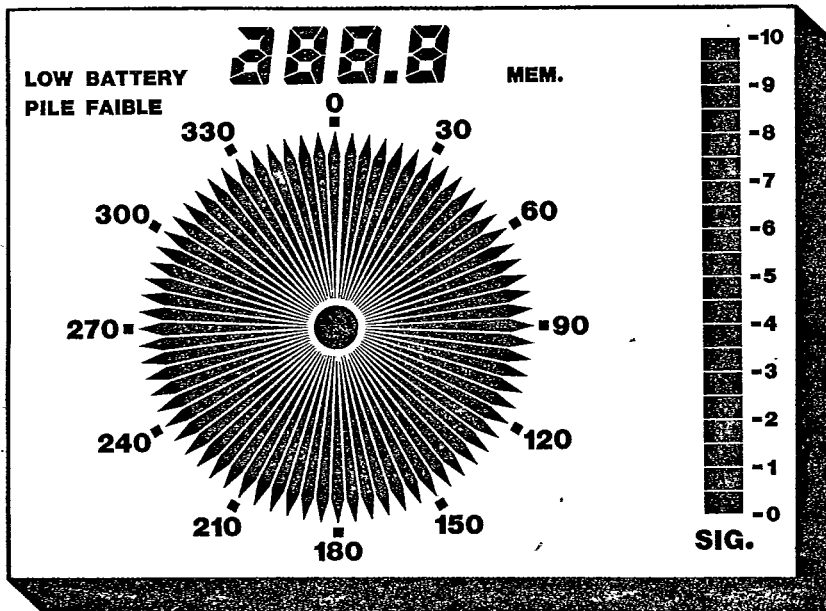


TM

POLYTRONIX, INC.

STANDARD AND CUSTOM LIQUID CRYSTAL DISPLAYS

- U.S. ENGINEERING
- U.S. MANUFACTURING
- FAST PROTOTYPES
- VOLUME PRODUCTION



POLYTRONIX

Polytronix, Inc. specializes in both standard and custom LCD manufacturing. Our products are backed by in-house design capability, extensive R&D activities and a volume production facility. We are committed to deliver quality products on time and provide the best technical service in the LCD industry.

From the results of our R&D efforts, Polytronix's patent for plastic LCD has drawn world wide attention and interest. This advanced technological "State-of-the-Art" product is expected to reach production capability within a short time frame.

The technical strength has made Polytronix a leader in the LCD industry and allows us to stay on the leading edge of LCD technologies and manufacturing. Our products have proven to have the best quality and reliability when operating under many different environmental conditions in the areas of consumer goods, computer products, industrial instruments, automotive and avionics indicators, and medical and military devices.

BASIC PRODUCT SPECIFICATION

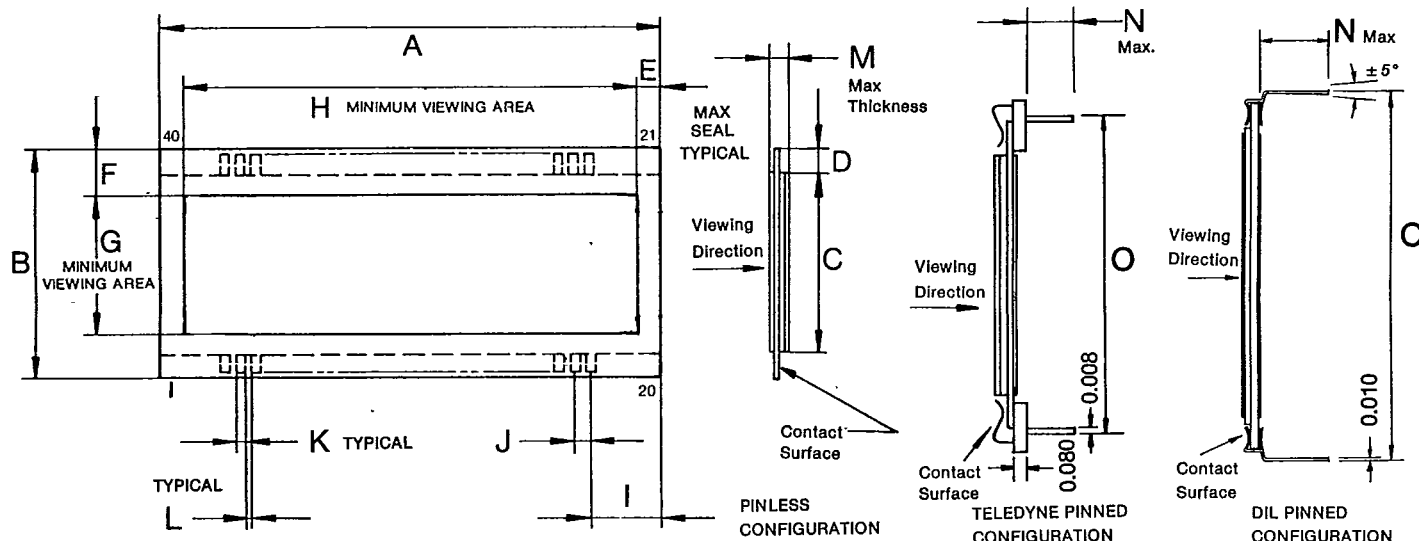
PARAMETERS	MIN	TYPICAL	MAX	UNITS
OPERATING VOLTAGE	2.5	*3	15	Vrms
DC COMPONENT			10	mV
OPERATING CURRENT/1 sq. in.		2	10	uA
OPERATING FREQUENCY	32		100	Hz
RESPONSE TIME AT 25°C		50		ms
OPERATING TEMP.	-20		+ 80	°C
STORAGE TEMP.	-40		+ 90	°C
CONTRAST RATIO		20:1		
EXPECTED LIFE		50,000		Hours
ENVIRONMENTAL TEST (50°C/95% RH)		1,000		Hours

*Typical for Direct Drive Displays. Multiplex Displays Required Higher Drive Voltage.

STANDARD DOT MATRIX DISPLAYS

Part #	No. of Display Character	Character Format	Character Dimension	Over All Glass Dimension
PI-13	16 x 1	5 x 7 + Cursor	Width x Height 0.15" x 0.15"	3.2" x 1.2"
PI-74	55 x 1	5 x 7 + Cursor	0.1" x 0.15"	7.325" x 0.6"
PI-42	40 x 2	5 x 7 + Cursor	0.15" x 0.2"	6.35" x 0.9"

NOTE: STANDARD DOT MATRIX LCDs other than those shown above are available.
Number of display characters up to 25 lines x 80 characters.

POLYTRONIX**CUSTOM DESIGN SHEET****Dimensions:**

- * A. Glass length: _____ in.
 * B. Segment glass width: _____ in.
 * C. Common glass width: _____ in.
 D. Contact width: _____ in.
 E. Typical seal width: _____ in.
 (0.100 is recommended)
 F. Glass edge to viewing area: _____ in.
 G. Min. height of viewing area: _____ in.
 H. Min. length of viewing area: _____ in.
 I. Glass edge to first contact pad: _____ in.
 J. Pitch of contact pads: _____ in.
 K. Contact pad width: _____ in.
 L. Contact pad space: _____ in.
 M. Panel thickness: _____ in.
 N. Connector pin length: _____ in.
 O. Row-to-row spacing of connector pins: _____ in.

* Mechanical glass dimensions are subject to $\pm 0.01''$ tolerance unless, otherwise, specified.

Operating Conditions

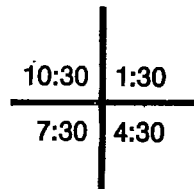
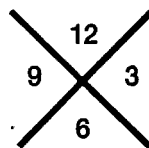
Parameter	Min.	Typ.	Max.
Operating Voltage			
Operating Frequency Range			
Operating Temperature Range			

Driving Method

- ☐ Direct drive
☐ 1/2 multiplex
☐ 1/3 multiplex
☐ 1/4 multiplex
☐ 1/8 multiplex
☐ 1/16 multiplex
☐ 1/32 multiplex
☐ 1/64 multiplex
☐ 1/100 multiplex

Polarizers

- ☐ Commercial
☐ High Quality
☐ Laminated
☐ Loose
☐ Color
 (RED, BLUE, GREEN, YELLOW)
☐ Antiglare

Viewing Angle**Reflector**

- ☐ Smooth
☐ Textured
☐ Reflective
☐ Transflective
☐ Transmissive
☐ Loose
☐ Color (Silver or Gold)

Connector Type

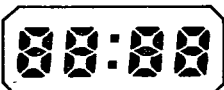
- ☐ Elastomer
☐ DIL Pins
☐ Teledyne Snap-on Pins
☐ Flexible Flat Cable

Driver _____

TYPICAL LEAD TIMES

- Artwork 2 weeks ARO
 • Prototypes 4-6 weeks ARO
 • Production 4-6 weeks after prototype approval

STANDARD LCDS

Display	Part #	Description	Character Size	Over All Glass Dimension	Connector Type
	PI-61	3 Digits	0.4"	Width x Height 1.2" x 0.9"	Pin or Elastomeric
	PI-1	3 1/2 Digits	0.5"	2" x 1.2"	Elastomeric
	PI-71	3 1/2 Digits	0.75"	2.75" x 1.5"	Pin
	PI-84	3 1/2 Digits	0.5"	2" x 1.2"	Pin
	PI-46	3 1/2 Digits and Indicators	0.5"	2" x 1.2"	Pin
	PI-85	4 Digits and Indicators	0.35"	1.57" x 0.56"	Elastomeric
	PI-41	4 Digits	0.4"	2" x 0.9"	Elastomeric
	PI-49	4 Digits	1"	4" x 1.75"	Pin
	PI-60	8 Digits Calculator Display	0.25"	2.05" x 0.87"	Elastomeric
	PI-40	10 Digits Telephone Display	0.2"	2.1" x 0.6"	Elastomeric
	PI-26	5 Characters Alphanumeric	0.75"	4" x 1.5"	Elastomeric
	PI-69	8 Characters Alphanumeric	0.15"	2.05" x 0.87"	Elastomeric
	PI-73	8 Characters Alphanumeric	0.5"	3.7" x 1.2"	Elastomeric

POLYTRONIX, INC.

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