

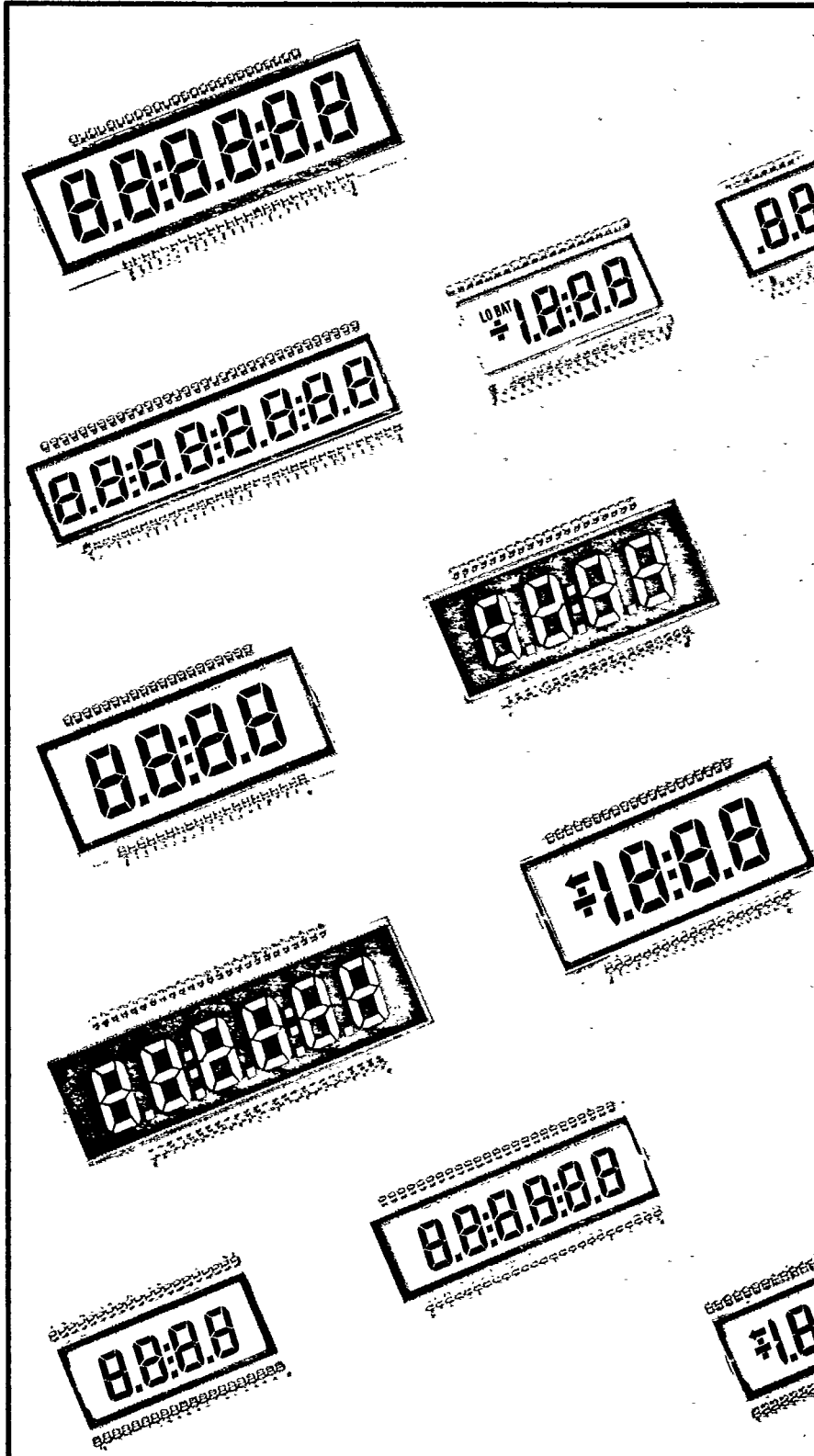
T-41-38



LIQUID CRYSTAL DISPLAYS

7000 SERIES
8000 SERIES
9000 SERIES

STL 5/89



FEATURES

- High Reliability
- Ultra Low Power Consumption
- Wide Temperature Range (-30°C to +80°C)
- High Contrast
- Wide Viewing Angle
- Long Life (100,000 Hour)
- 3 Fluid Options:
Commercial, Industrial, Negative Guest Host
- 3 Viewing Modes:
Reflective, Transflective, Transmissive
- 2 Interconnect Options:
Rugged DIL Pins, Elastomeric

APPLICATIONS

- Measuring Instruments:
Panel Meters, Thermometers, Clocks,
Scales, Tachometers, Flow Meters
- Sales Terminals
- Telecommunication Equipment
- Computer Peripherals
- Automatic Test Equipment
- Medical Instruments
- Automotive
- Marine Instruments
- Gasoline Pumps
- Navigation Equipment
- Military Instrumentation
- Transportation
- Education
- Aerospace

9000-0521

.5" CHARACTER DISPLAY

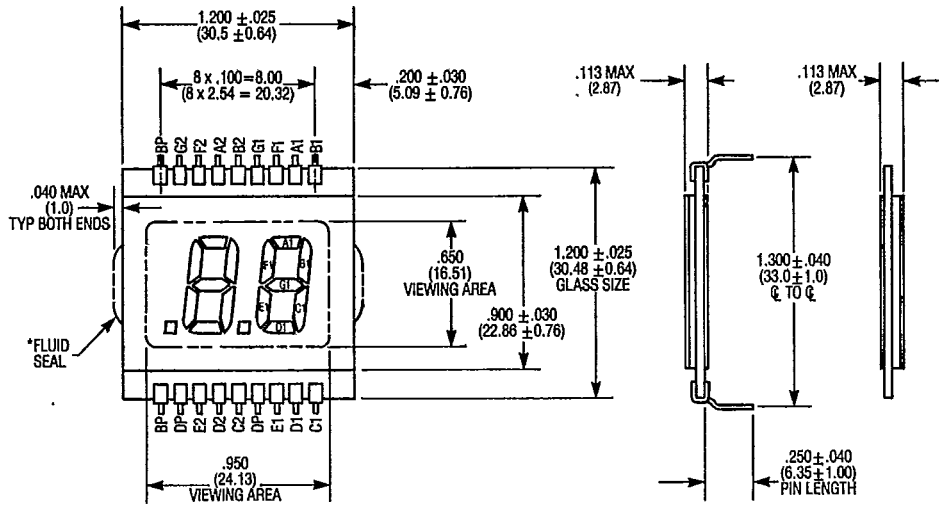
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SHLT-41-38

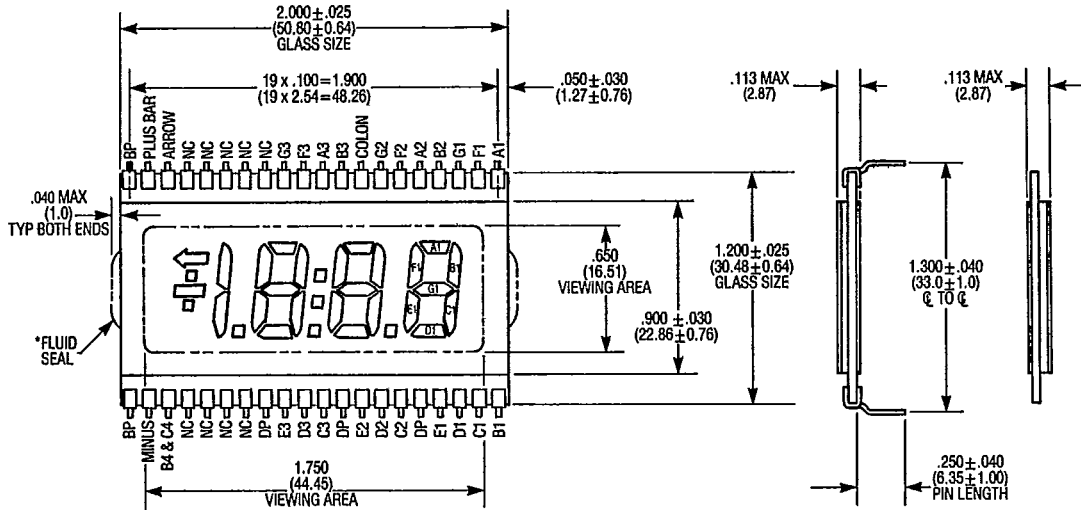
2 DIGIT

SHELLY ASSOCIATES INC

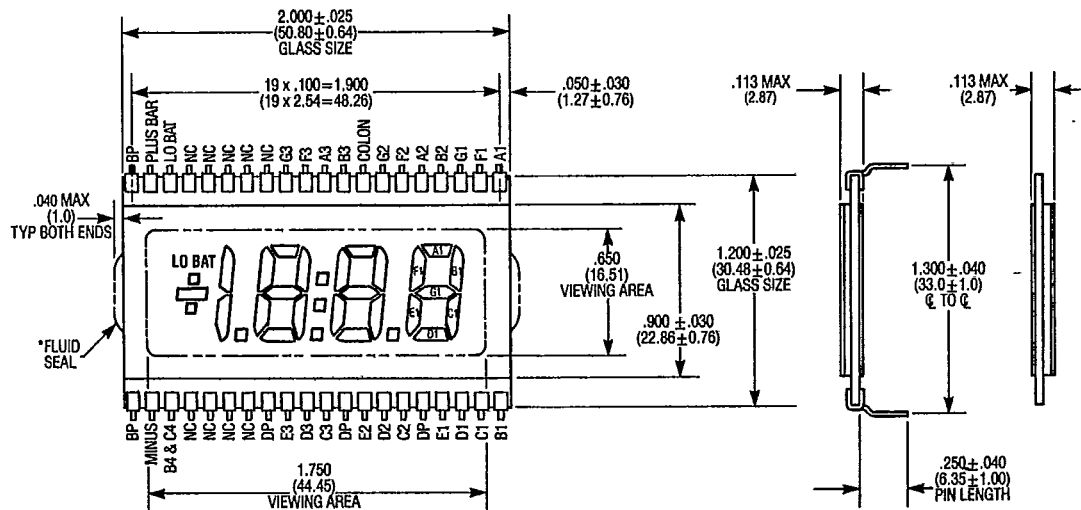
26E D



3.5 DIGIT (ARROW)



3.5 DIGIT (LO BAT)

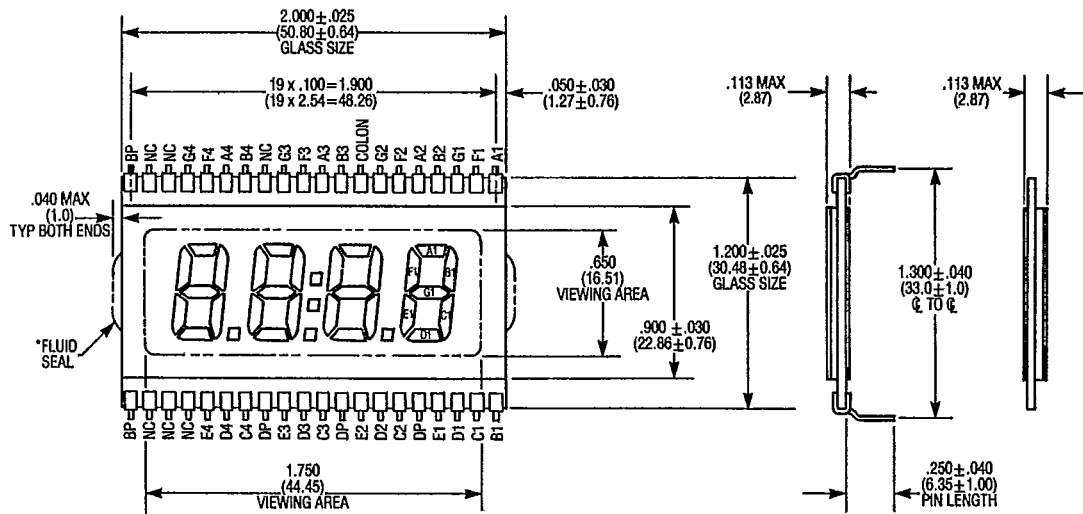


NOTE: CHARACTER PITCH IS 6° ON ALL DEVICES *SEAL MAY BE ON RIGHT OR LEFT

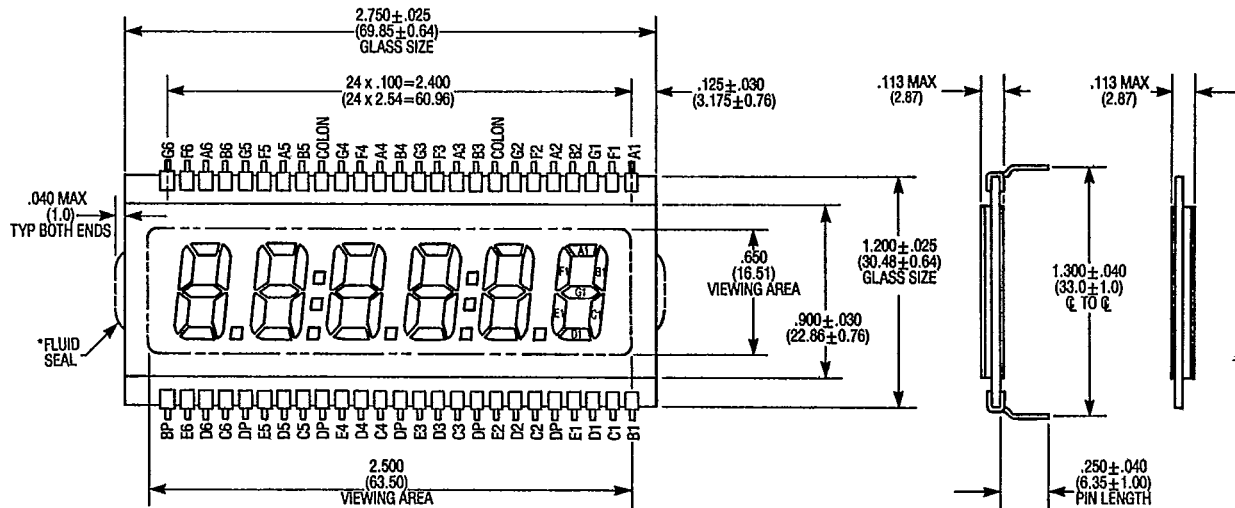
4 DIGIT

SHELLY ASSOCIATES INC

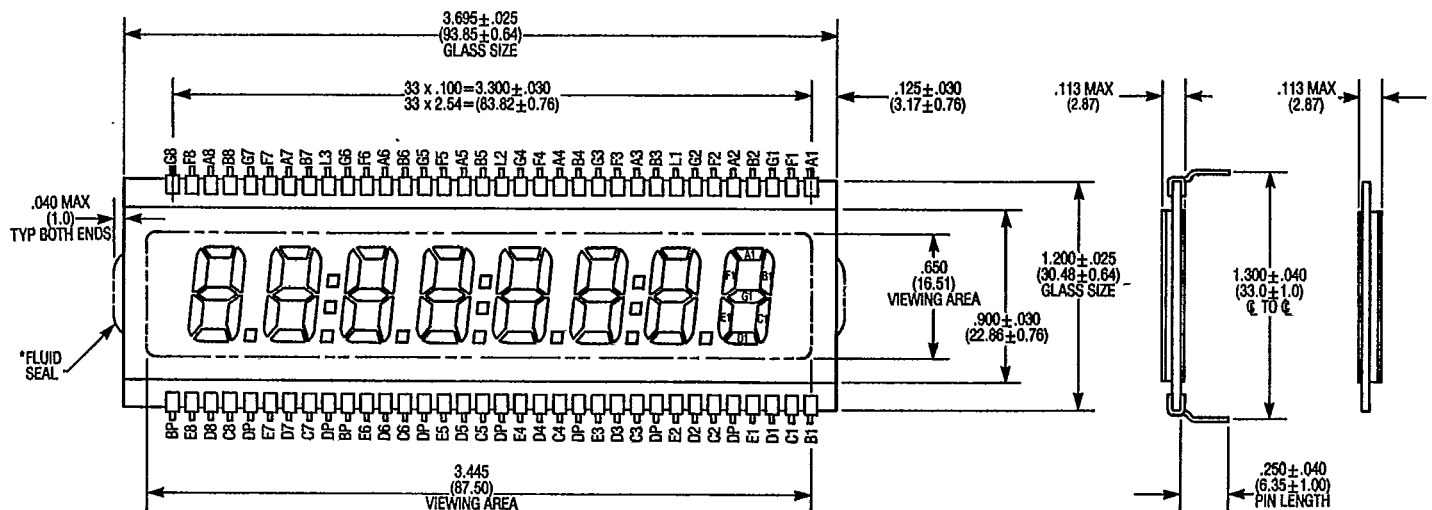
26E D



6 DIGIT



8 DIGIT



NOTE: CHARACTER PITCH IS 6° ON ALL DEVICES *SEAL MAY BE ON RIGHT OR LEFT

.7" CHARACTER DISPLAY

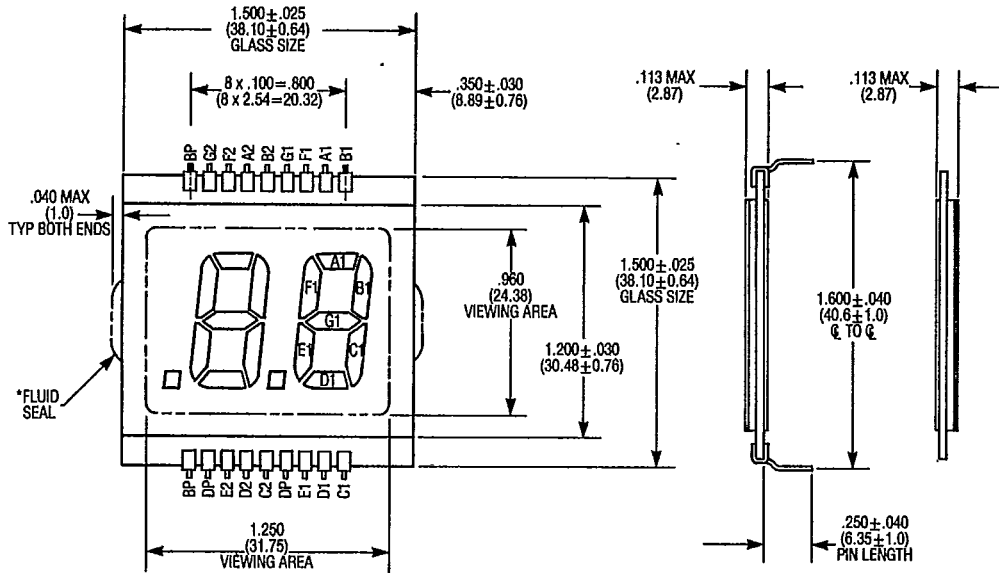
26E D

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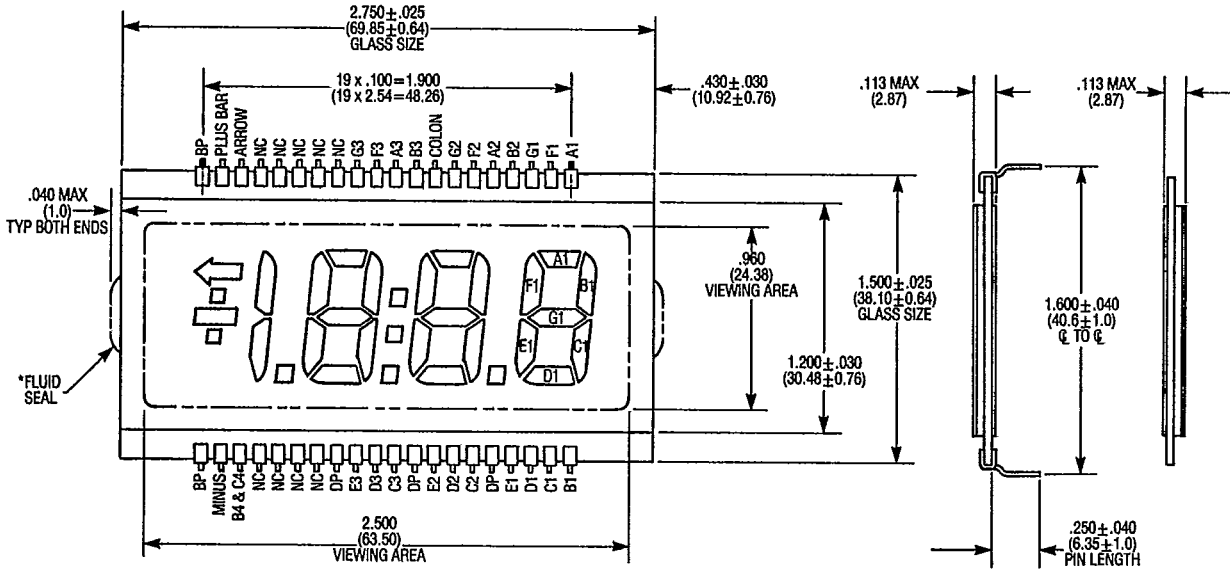
SHLT-41-38

SHELLY ASSOCIATES INC

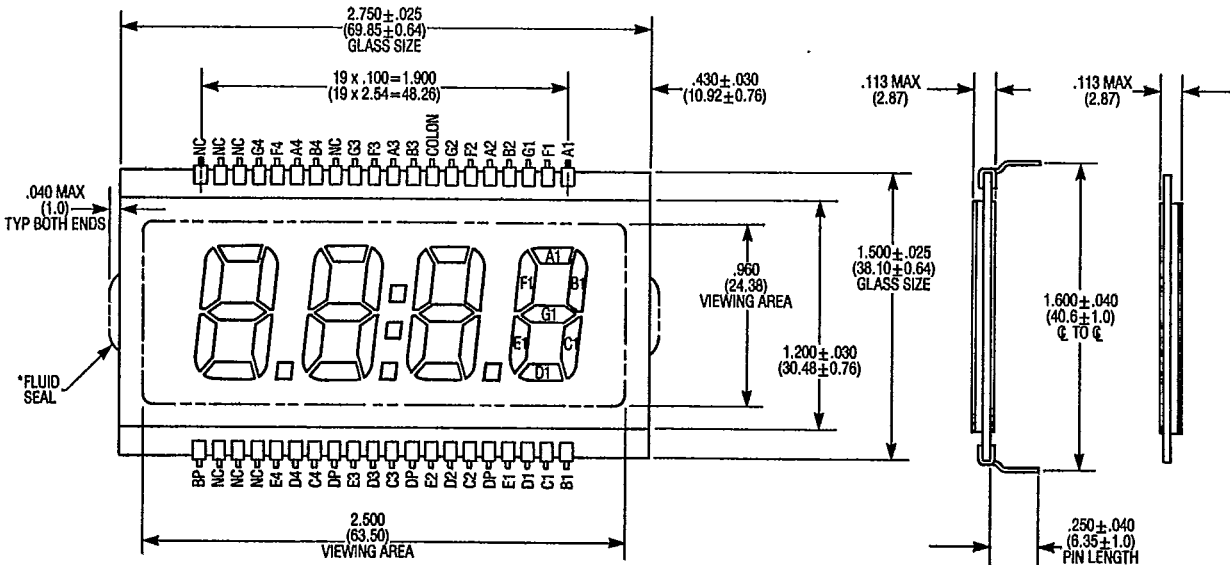
2 DIGIT



3.5 DIGIT



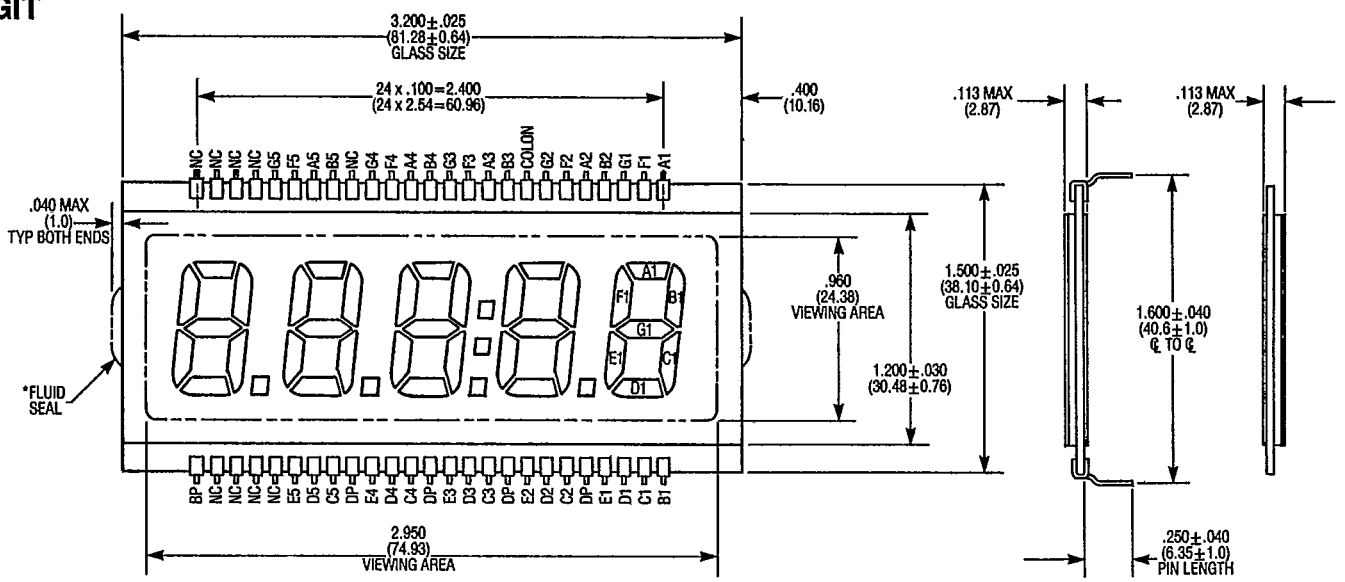
4 DIGIT



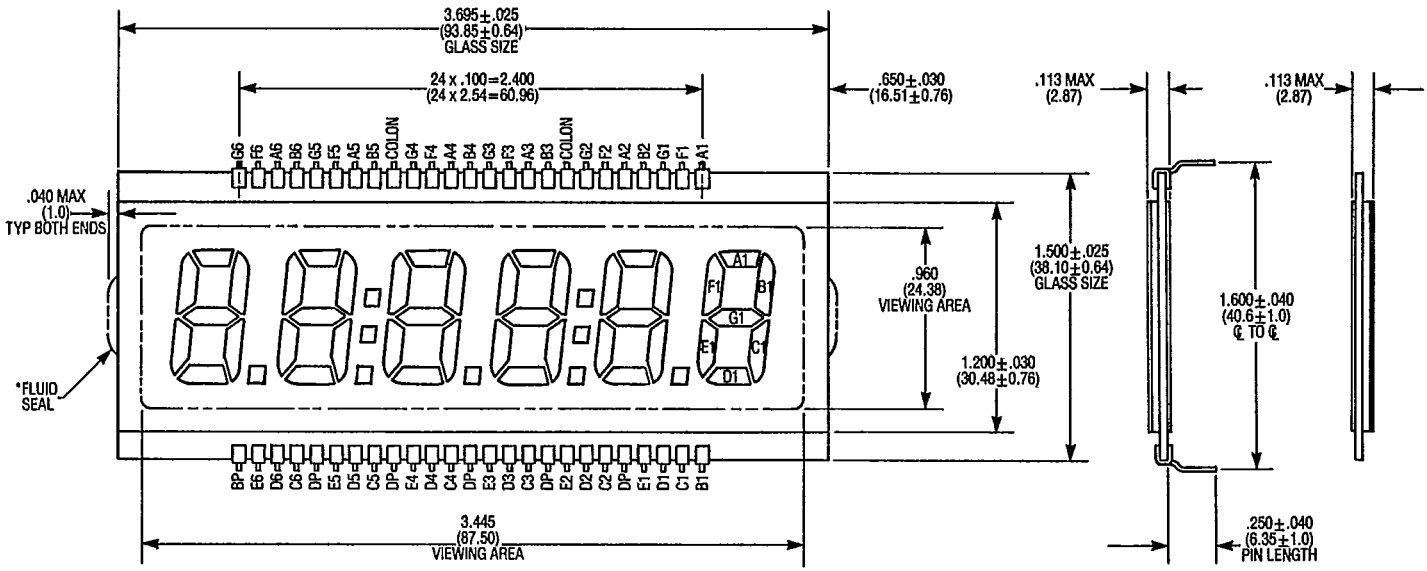
NOTE: CHARACTER PITCH IS 6° ON ALL DEVICES *SEAL MAY BE ON RIGHT OR LEFT

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5 DIGIT



6 DIGIT



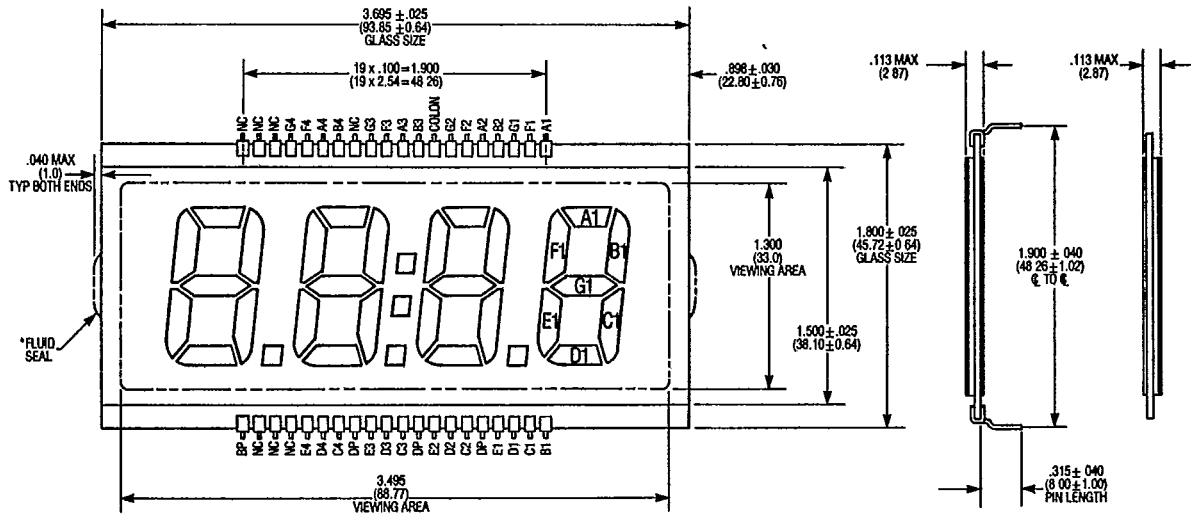
NOTE: CHARACTER PITCH IS 6° ON ALL DEVICES *SEAL MAY BE ON RIGHT OR LEFT

1" CHARACTER DISPLAY

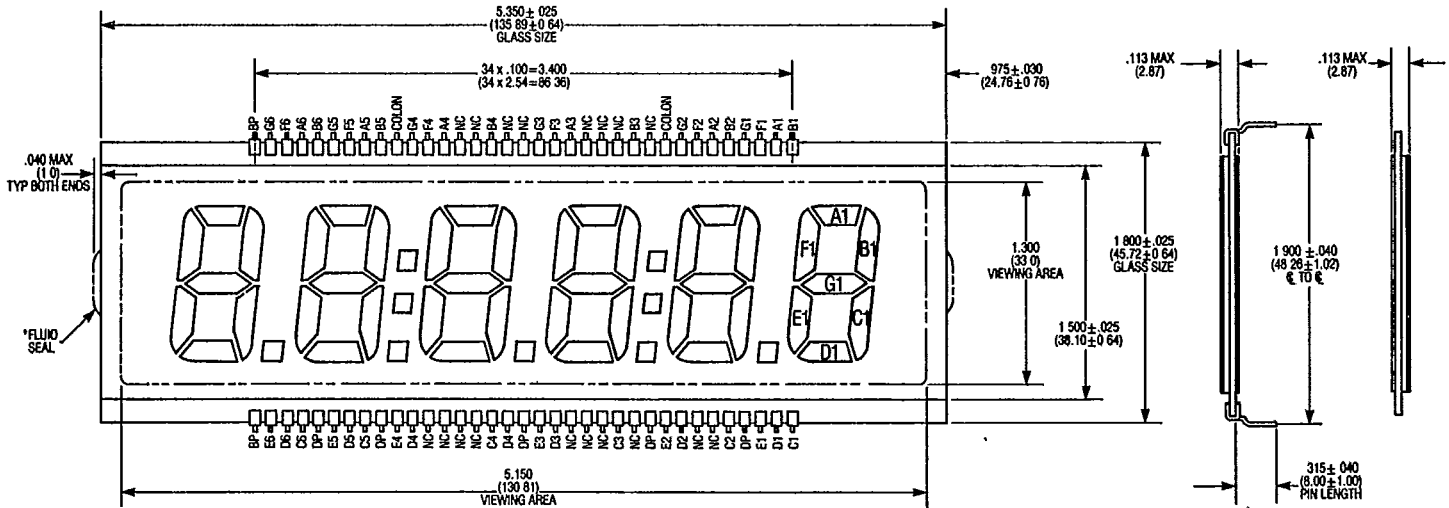
26E D ■ 8201279 0000505 8 ■ SHL T-41-38

SHELLY ASSOCIATES INC

4 DIGIT



6 DIGIT



NOTE: CHARACTER PITCH IS 6° ON ALL DEVICES *SEAL MAY BE ON RIGHT OR LEFT

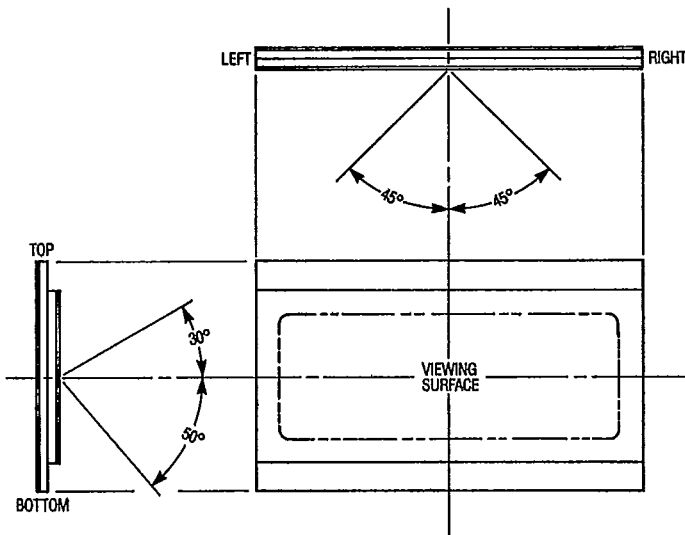
IN ADDITION TO THESE STANDARD DISPLAYS, SHELLY OFFERS COMPLETE DESIGN SERVICES FOR CUSTOM DISPLAYS.

PERFORMANCE SPECIFICATIONS

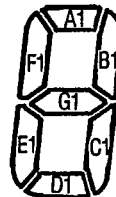
CHARACTERISTIC	COMMERCIAL		INDUSTRIAL		NEGATIVE GUEST HOST		UNITS
	MIN/MAX	TYPICAL OPERATING RANGE	MIN/MAX	TYPICAL OPERATING RANGE	MIN/MAX	TYPICAL OPERATING RANGE	
UNLESS OTHERWISE SPECIFIED T _A = +25°C AND TEST VOLTAGE IS TYPICAL							
OPERATING VOLTAGE	2.8 to 10.0	3.0	3.5 to 10.0	5.0	5.0 to 15.0 MAX	7.0	V _{RMS}
DC DRIVE COMPONENT ALLOWABLE	50 MAX	25	50 MAX	25	50 MAX	25	mV
OPERATING FREQUENCY RANGE*	30 to 100	32 to 64	30 to 100	32 to 64	30 to 100	32 to 64	HZ
CURRENT (ALL SEGMENTS ON) TYP FOR 4 DIGIT .7" CHARACTER DISPLAY	6 MAX	4	14 MAX	6	26 MAX	9	μA
RESPONSE TIME							
SEGMENT ON (T _A = +25°C)	190 MAX	80	70 MAX	15		20	ms
SEGMENT OFF (T _A = +25°C)	140 MAX	60	100 MAX	30		60	ms
SEGMENT ON (T _A = 0°C)	750 MAX	380	500 MAX	40		100	ms
SEGMENT OFF (T _A = 0°C)	700 MAX	200	600 MAX	100		300	ms
SEGMENT ON (T _A = -20°C)			1000 MAX	400		1100	ms
SEGMENT OFF (T _A = -20°C)			1500 MAX	900		2800	ms
CONTRAST RATIO		20:1		20:1		15:1	
OPERATING TEMPERATURE RANGE	-10 to +60		-30 to +80		-30 to +80		°C
STORAGE TEMPERATURE RANGE	-20 to +70		-40 to +85		-40 to +85		°C
EXPECTED LIFE		100,000		100,000		100,000	HOURS
THRESHOLD VOLTAGE	2.2 MAX	1.6	2.7 MAX	2.3	4.1 MAX	3.9	V _{RMS}

*RECOMMENDED: FLICKER MAY OCCUR BELOW 30HZ AND POWER CONSUMPTION INCREASES ABOVE 100 HZ.

VIEWING ANGLE (All LCDs)

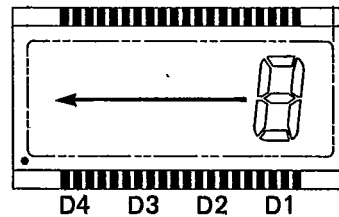


SEGMENT NOTATION (All LCDs)



Segment notation is defined as illustrated.

DIGIT NUMBERS - Counted Right to Left (All LCDs)



ABBREVIATIONS:
BP - Back Plane
DP - Decimal Point
NC - No Connection

Important notice to purchaser.

All statements, technical information and recommendations herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose: Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. Neither seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct, incidental, or consequential, arising out of the use of or the inability to use the product. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

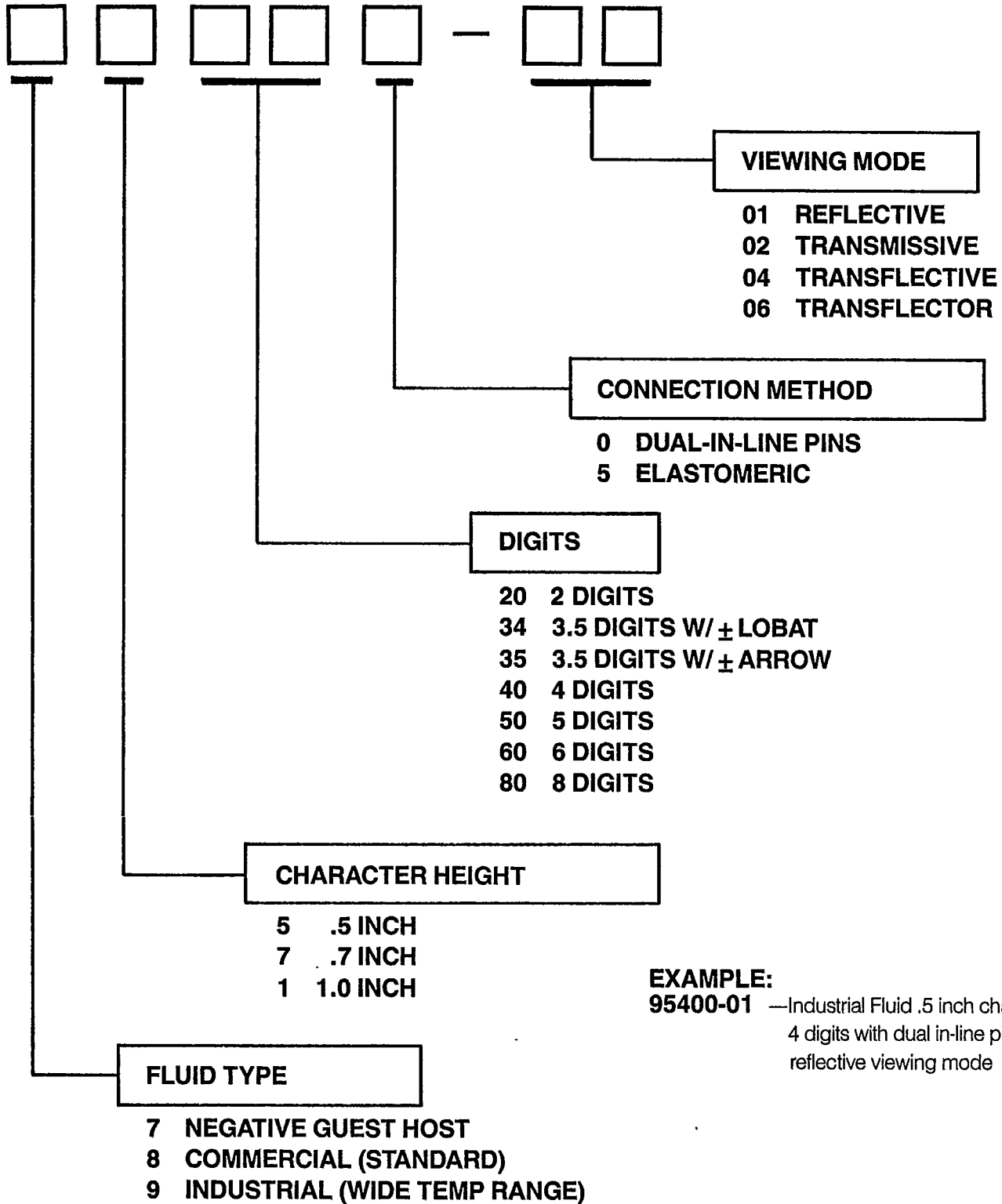
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

ORDERING INFORMATION

8201279 0000507 1 SHL T-41-38

SHELLY ASSOCIATES INC

26E



EXAMPLE:
95400-01 —Industrial Fluid .5 inch character,
 4 digits with dual in-line pins and
 reflective viewing mode

IN ADDITION TO THESE STANDARD DISPLAYS, SHELLY OFFERS COMPLETE DESIGN SERVICES FOR CUSTOM DISPLAYS.

