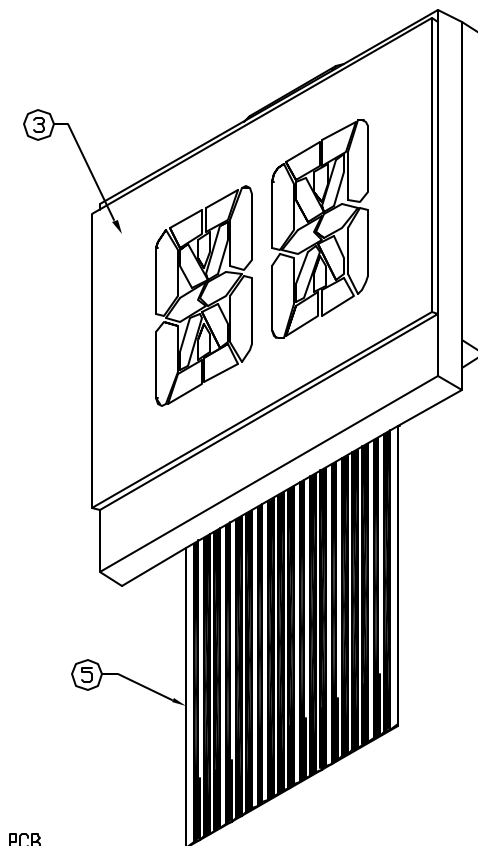
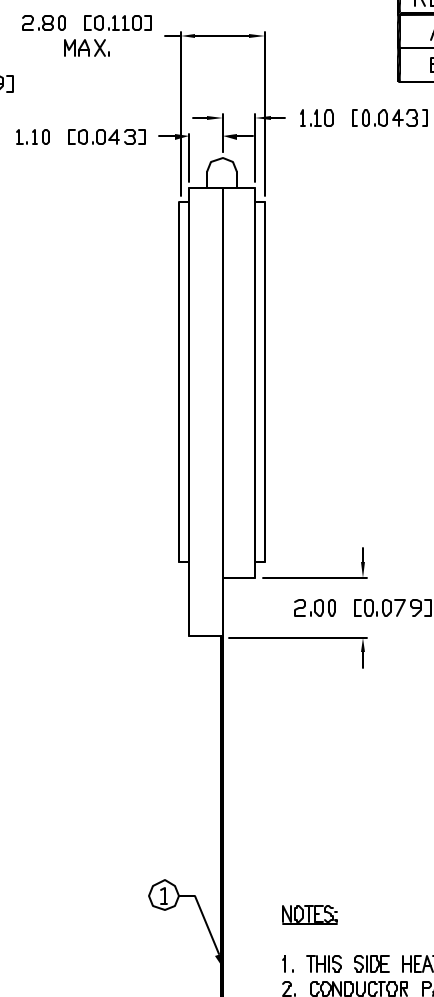
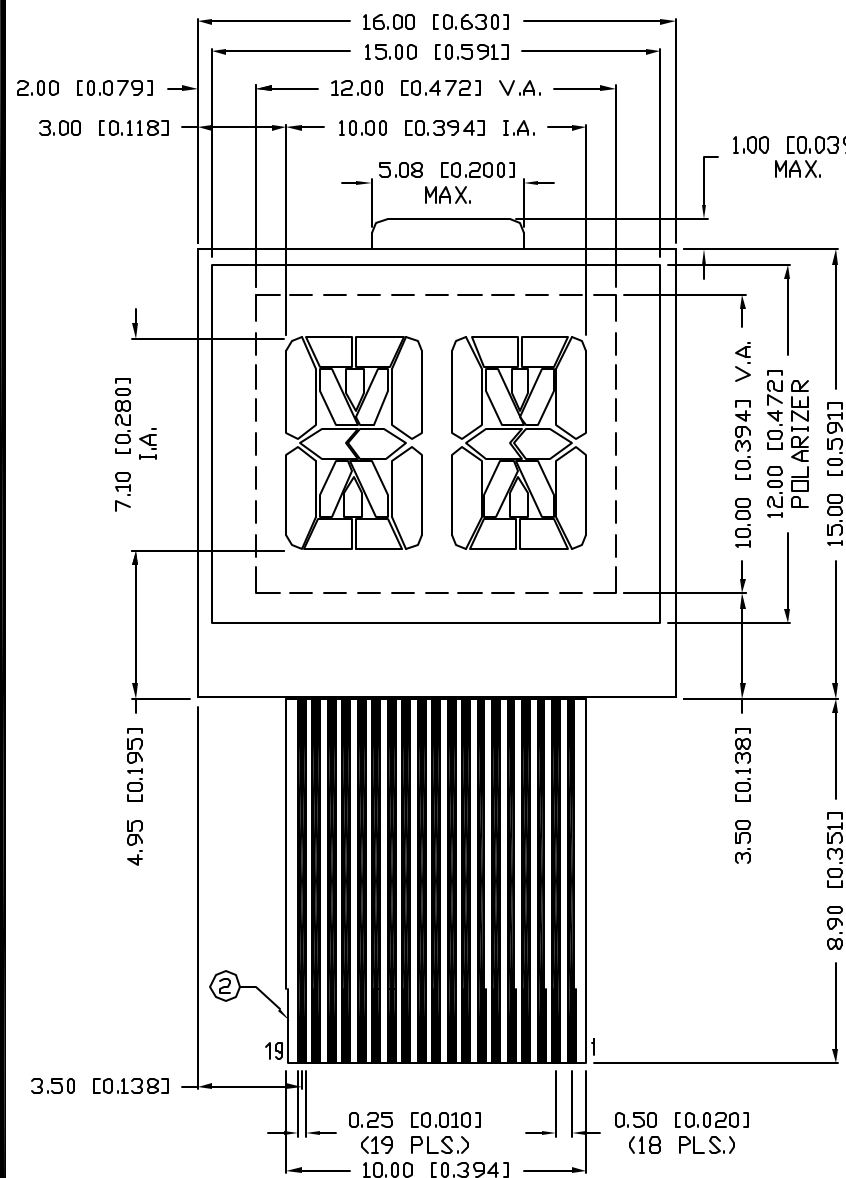


UNCONTROLLED DOCUMENT



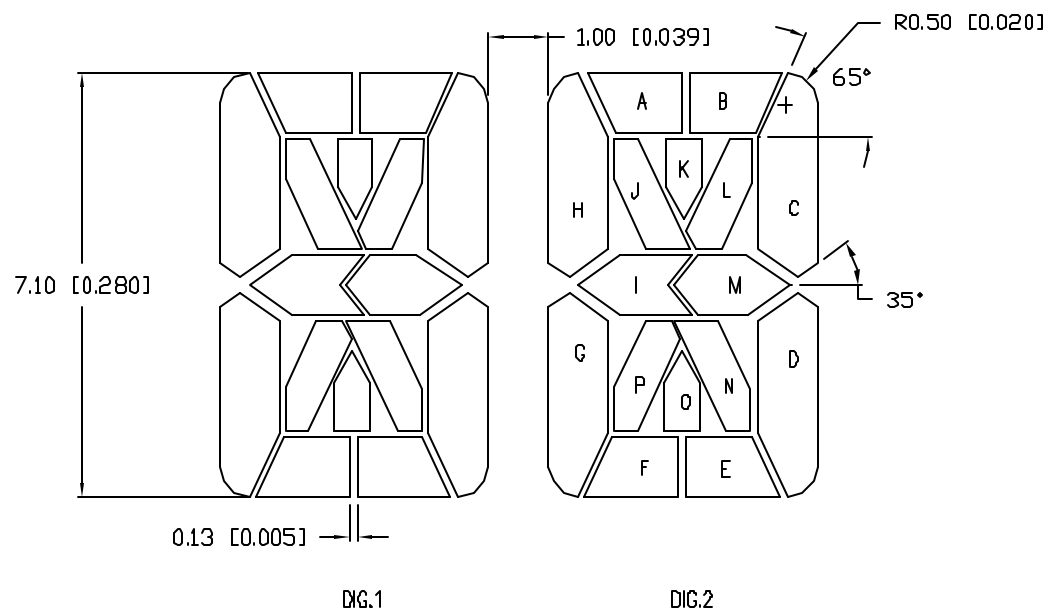
1. THIS SIDE HEAT SEALED TO PCB.
2. CONDUCTOR PAD COUNT NEEDS TO BE EXACTLY 19.
3. NO ANTI-GLARE ON FRONT POLARIZER.
4. POLARIZER TYPE: SHC.
5. HEAT SEAL: 1905100-10.9KN

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.=+0.000 DECIMAL PRECISION MAX.=+0.000 DECIMAL PRECISION

|                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REV.<br>B                                                                                                           | PART NUMBER<br>LCD-UH201A30TB-1SX | <p>CONFIDENTIAL INFORMATION</p> <p>THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DENEMINATION TO ALL THIRD PARTIES.</p> <p>RELIABILITY NOTE</p> <p>OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.</p> |  <p>290 E. HELEN ROAD<br/>PALATINE, IL 60067-6976<br/>PHONE: +1.847.359.2790<br/>US WEB: <a href="http://www.lumex.com">www.lumex.com</a><br/>TW WEB: <a href="http://www.lumex.com.tw">www.lumex.com.tw</a></p> |
| 0.28" TWO DIGIT, CUSTOM LCD PANEL,<br>GRAPHITE HEAT SEAL CONNECTOR,<br>BLACK MASK TN, TRANSMISSIVE, NEGATIVE IMAGE. |                                   | <p>DRAWN BY:<br/>JC</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>CHECKED BY:</p> <p>APPROVED BY:</p> <p>DATE: 5.20.02<br/>PAGE: 1 OF 2<br/>SCALE: N/A</p>                                                                                                                                                                                                           |

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
|------|-------------------------------------|------|
| B    | SEE PAGE #1                         |      |

## PANEL DETAIL



| CHARACTERISTICS   |                        |
|-------------------|------------------------|
| FLUID TYPE        | TN                     |
| BACKGROUND COLOR  | BLACK MASK             |
| VIEWING DIRECTION | 12:00                  |
| DISPLAY MODE      | TRANSMISSIVE           |
| OPERATING VOLTAGE | 5.0V A.C.              |
| OPERATING TEMP.   | -30°C TO +85°C         |
| STORAGE TEMP.     | -40°C TO +85°C         |
| DRIVING METHOD    | 1/2 DUTY, 1/2 BIAS     |
| CONNECTION TYPE   | 19 PAD HEAT SEAL CABLE |

| PIN NO. | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8    | 9    | 10 |
|---------|----|----|----|----|----|----|----|------|------|----|
| COM 1   | 2D | 2E | 2F | 2G | -  | 1D | 1E | 1F   | 1G   | 1H |
| COM 2   | 2M | 2N | 2O | 2P | /  | 1M | 1N | 1O   | 1P   | 1I |
| PIN NO. | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18   | 19   |    |
| COM 1   | 1A | 1B | 1C | 2H | 2A | 2B | 2C | COM1 | /    |    |
| COM 2   | 1J | 1K | 1L | 2I | 2J | 2K | 2L | /    | COM2 |    |

## NOTES:

SEGMENTS J, K, L, N, O, P ARE 0.60mm WIDE.  
SEGMENTS A, B, C, D, E, F, G, H, I, M ARE 1.00mm WIDE.

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN.=+DECIMAL PRECISION MAX.=+0.00 -DECIMAL PRECISION

REV.  
BPART NUMBER  
LCD-UH201A30TB-1SX

0.28" TWO DIGIT, CUSTOM LCD PANEL,  
GRAPHITE HEAT SEAL CONNECTOR,  
BLACK MASK TN, TRANSMISSIVE, NEGATIVE IMAGE.

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## RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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|           |             |              |               |
|-----------|-------------|--------------|---------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: 5.20.02 |
| JC        |             |              | PAGE: 2 OF 2  |
|           |             |              | SCALE: N/A    |