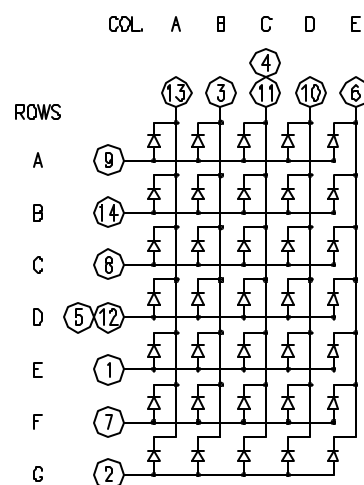
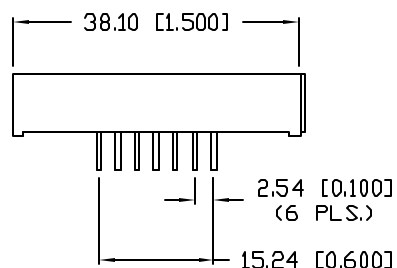
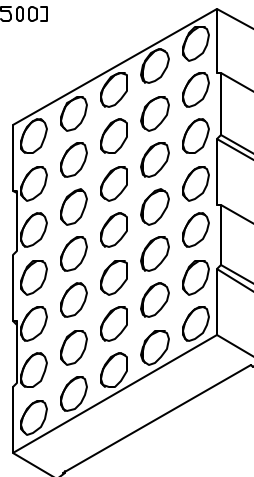
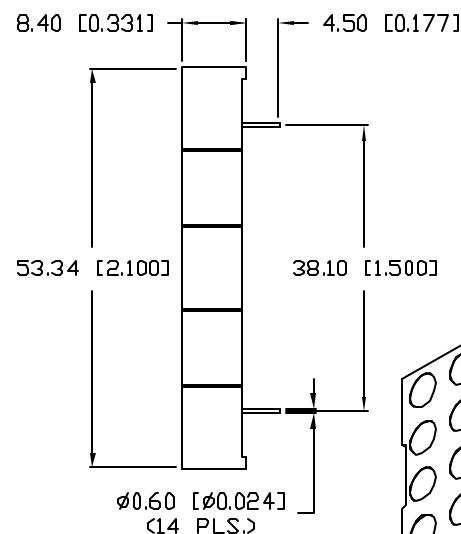
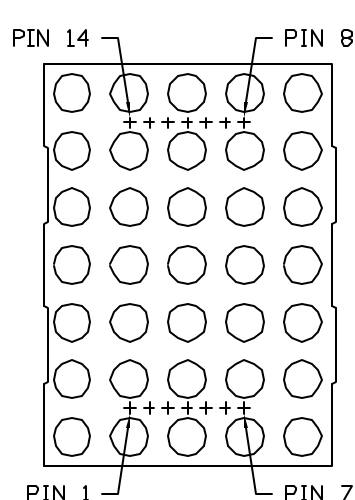


UNCONTROLLED DOCUMENT



|             |                                     |         |
|-------------|-------------------------------------|---------|
| PART NUMBER |                                     | REV.    |
| LDM-21657NI |                                     | A       |
| REV.        | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
| A           | E.C.N. #10BRDR. & REDRAWN IN 3D.    | 6.28.03 |

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $I_f=10\text{mA}$

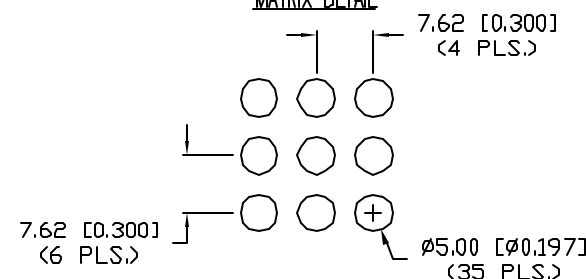
| PARAMETER       | MIN                  | TYP  | MAX | UNITS          | TEST COND            |
|-----------------|----------------------|------|-----|----------------|----------------------|
| PEAK WAVELENGTH |                      | 660  |     | nm             |                      |
| FORWARD VOLTAGE |                      | 1.7  | 2.2 | $V_f$          |                      |
| REVERSE VOLTAGE | 4.0                  |      |     | $V_r$          | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY |                      | 6000 |     | $\mu\text{cd}$ | $I_f=10\text{mA}$    |
| EMITTED COLOR:  | RED                  |      |     |                |                      |
| FACE COLOR:     | GRAY                 |      |     |                |                      |
| SEGMENT COLOR:  | MILKY WHITE DIFFUSED |      |     |                |                      |

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$  PER DOT

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 100        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.6       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |
| SOLDERING TEMP.                | +260       | $^\circ\text{C}$     |
| 2.0mm FROM BODY                | 3 SEC. MAX |                      |

\*  $t < 10\mu\text{s}$

MATRIX DETAIL



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

|                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                              |  |                         |  |                          |  |
|---------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|--------------------------|--|
| REV.                                                                                                                | PART NUMBER | CONFIDENTIAL INFORMATION                                                                                                                                                                                                                                                                                                     |  | LUMEX                   |  | 290 E. HELEN ROAD        |  |
| A                                                                                                                   | LDM-21657NI | 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 DISSEMINATION TO ALL THIRD PARTIES. |  | PALATINE, IL 60067-6976 |  | PHONE: +1.847.359.2790   |  |
| 2.10" 5 x 7 DOT MATRIX, LED DISPLAY,<br>660nm RED CHIPS, GRAY FACE WITH WHITE SEGMENTS,<br>COLUMN CATHODE, 14 PINS. |             | RELIABILITY NOTE<br>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.                                                                                                                                   |  | US WEB: www.lumex.com   |  | TW WEB: www.lumex.com.tw |  |
|                                                                                                                     |             | DRAWN BY: BC                                                                                                                                                                                                                                                                                                                 |  | CHECKED BY:             |  | APPROVED BY:             |  |
|                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                              |  |                         |  | DATE: 4.20.00            |  |
|                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                              |  |                         |  | PAGE: 1 OF 1             |  |
|                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                              |  |                         |  | SCALE: N/A               |  |

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