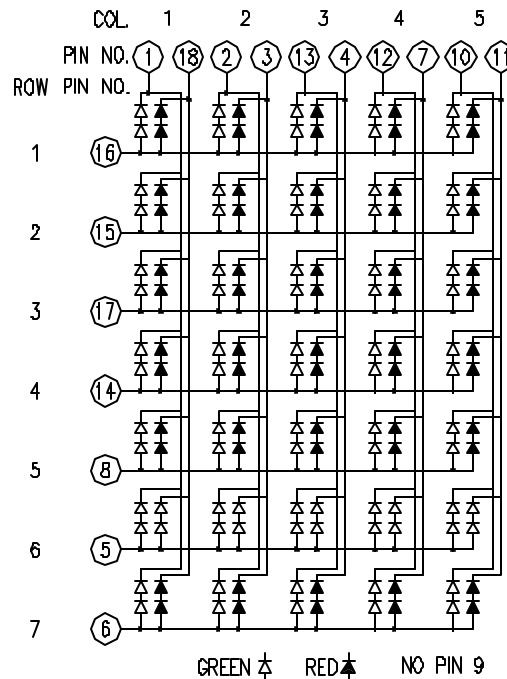
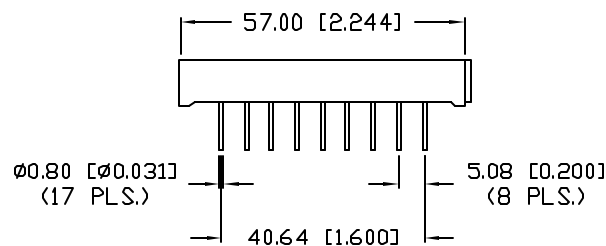
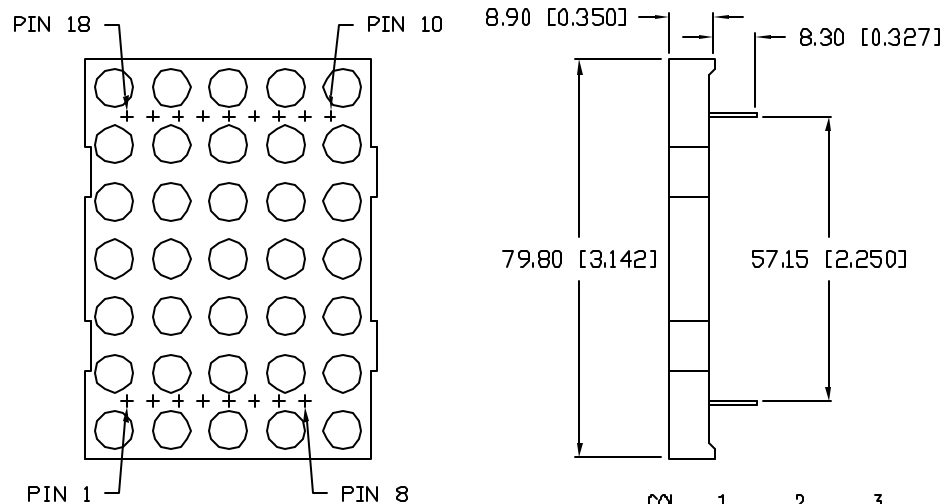


UNCONTROLLED DOCUMENT

PART NUMBER  
LDM-314257NI

REV.

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

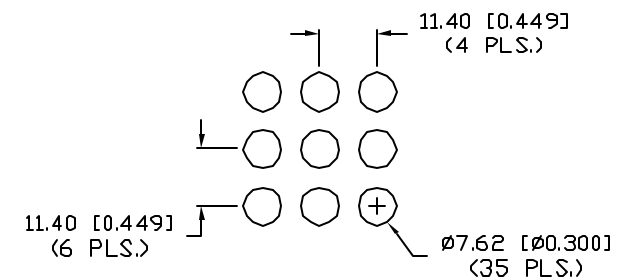
| PARAMETER             | MIN                  | TYP         | MAX     | UNITS          | TEST COND             |
|-----------------------|----------------------|-------------|---------|----------------|-----------------------|
| PEAK WAVELENGTH       |                      | 635 (RED)   |         | nm             |                       |
|                       |                      | 565 (GREEN) |         | nm             |                       |
| FORWARD VOLTAGE (R/G) |                      | 4.0/4.4     | 5.0/5.2 | V <sub>f</sub> |                       |
| REVERSE VOLTAGE       | 5.0                  |             |         | V <sub>r</sub> | I <sub>r</sub> =100μA |
| AXIAL INTENSITY (R/G) |                      | 2000/2500   |         | μcd            | I <sub>f</sub> =10mA  |
| EMITTED COLOR:        | RED/GREEN            |             |         |                |                       |
| FACE COLOR:           | GRAY                 |             |         |                |                       |
| SEGMENT COLOR:        | MILKY WHITE DIFFUSED |             |         |                |                       |

LIMITS OF SAFE OPERATION AT 25°C PER DOT

| PARAMETER                | COLORS | MAX        | UNITS      |
|--------------------------|--------|------------|------------|
| PEAK FORWARD CURRENT*    |        | 150        | mA         |
| STEADY CURRENT           | (R/G)  | 30/25      | mA         |
| POWER DISSIPATION        |        | 105        | mW         |
| DERATE FROM 25°C         |        | -1.6       | mW/°C      |
| OPERATING, STORAGE TEMP. |        | -40 TO +85 | °C         |
| SOLDERING TEMP.          |        | +260       | °C         |
| 2.0mm FROM BODY          |        |            | 3 SEC. MAX |

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

MATRIX DETAIL



UNCONTROLLED DOCUMENT

\*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.=+0.00 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

REV.

PART NUMBER

LDM-314257NI

CONFIDENTIAL INFORMATION  
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.

## 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.



290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

DRAWN BY:

BC

CHECKED BY:

APPROVED BY:

DATE: 8.10.04

PAGE: 1 OF 1

SCALE: N/A

3.1" 5 x 7 DOT MATRIX LED DISPLAY, COLUMN CATHODE,  
RED/GREEN CHIPS, GRAY FACE WITH WHITE DOTS.