

| REVISIONS |        |       |             |
|-----------|--------|-------|-------------|
| NO.       | DATE   | BY    | DESCRIPTION |
| 1         | 02/1/9 | A.C.H | NEW RELEASE |

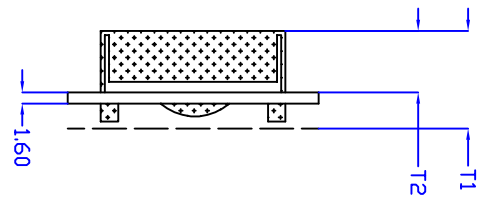
| PINS ASSIGNMENT |                                          |
|-----------------|------------------------------------------|
| NO.             | SYMBOL DESCRIPTION                       |
| 1               | VSS POWER SUPPLY                         |
| 2               | VDD POWER SUPPLY                         |
| 3               | V0 OPERATING VOLTAGE FOR LCD             |
| 4               | RS DATA/INSTRUCTION SELECT               |
| 5               | R/W READ/WRITE CONTROL                   |
| 6               | E ENABLE SIGNAL                          |
| 7--14           | DB0--DB7 DATA BUS                        |
| 15              | LED + POWER SUPPLY FOR LED BACKLIGHT (+) |
| 16              | LED - POWER SUPPLY FOR LED BACKLIGHT (-) |

| ABSOLUTE MAXIMUM RATING |         |      |      |      |
|-------------------------|---------|------|------|------|
| ITEM                    | SYMBOL  | MIN  | MAX  | UNIT |
| POWER SUPPLY (LOGIC)    | VDD-VSS | -0.3 | 7.0  | V    |
| POWER SUPPLY (LCD DRV.) | VDD-V0  | -0.3 | 13.5 | V    |
| INPUT VOLTAGE           | VI      | -0.3 | VDD  | V    |

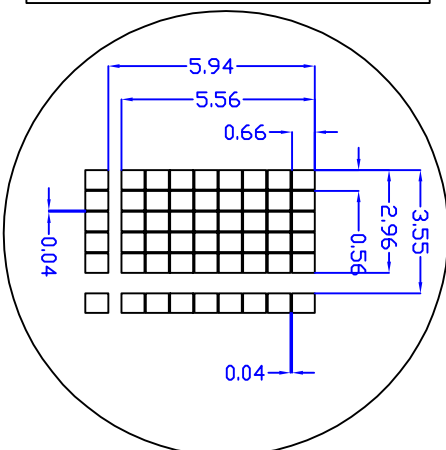
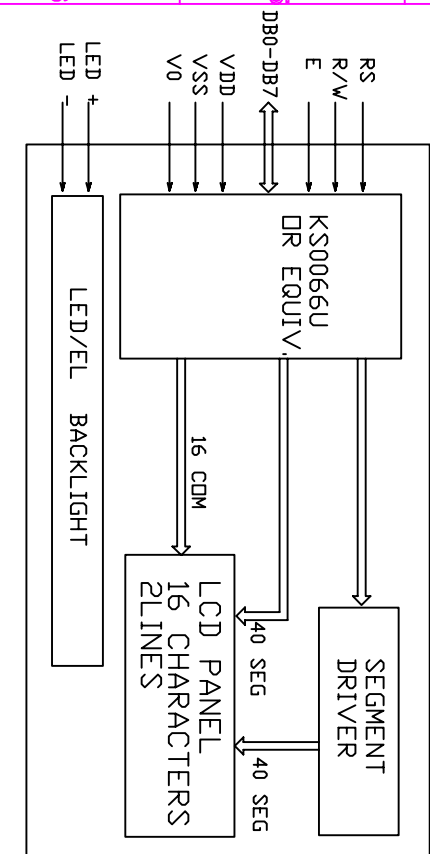
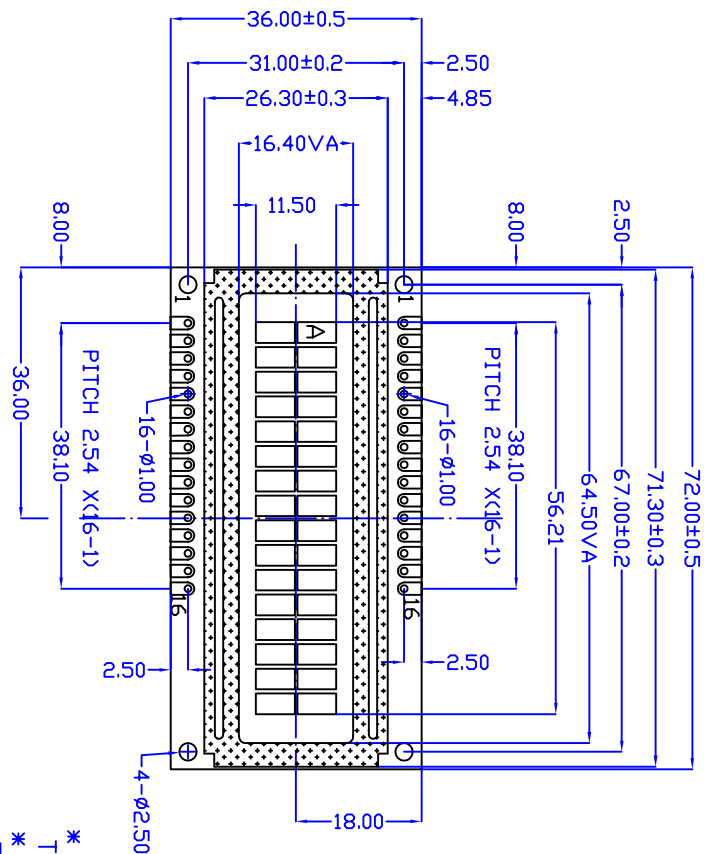
| ELECTRICAL CHARACTERISTICS (VDD=5.0±0.25V, 25°C) |                 |      |     |      |
|--------------------------------------------------|-----------------|------|-----|------|
| ITEM                                             | SYMBOL          | MIN  | TYP | MAX  |
| VOLTAGE FOR LOGIC                                | VDD-VSS         | 4.75 | 5.0 | 5.25 |
| SUPPLY CURRENT                                   | IDD             | -    | 1.3 | 2.2  |
| VOLTAGE FOR LCD                                  | VDD-V0          | -    | 4.6 | -    |
| INPUT VOLTAGE                                    |                 |      |     |      |
| H                                                | V <sub>IH</sub> | 2.2  | -   | VDD  |
| L                                                | V <sub>IL</sub> | -0.3 | -   | 0.6  |
| OUTPUT VOLTAGE                                   |                 |      |     |      |
| H                                                | V <sub>OH</sub> | 2.4  | -   | -    |
| L                                                | V <sub>OL</sub> | -    | -   | 0.4  |

| MECHANICAL SPECIFICATIONS |                              |      |
|---------------------------|------------------------------|------|
| ITEM                      | SPECIFICATION                | UNIT |
| OVERALL SIZE              | 72.0W x 36.0H x 14.0T(10.0T) | MM   |
| VIEWING AREA              | 64.5W x 16.4H                | MM   |
| CHARACTERS                | 16 CHARACTERS x 2 LINES      | MM   |
| CHARACTER SIZE            | 2.96W x 5.56H                | MM   |
| CHARACTER PITCH           | 3.55W x 5.94H                | MM   |

| OPTIONS |                                                      |
|---------|------------------------------------------------------|
| 1.      | LCD TYPE: V/G STN; GRAY STN; TN                      |
| 2.      | BACKLIGHT: WITHOUT BACKLIGHT; LED; EL                |
| 3.      | COLOR OF BACKLIGHT: V/G; BLUE; WHITE                 |
| 4.      | TEMPERATURE RANGE: NORMAL(0--50C) EXTENDED(-20--70C) |
| 5.      | POWER SUPPLY: 5.0V; 3.0V                             |
| 6.      | VIEWING ANGLE: 6H; 12H                               |
| 7.      | CHARACTER TABLE: JAPANESE; EUROPEAN; CYRILLIC        |



\* FOR LED BACKLIGHT  
 T1=14.0MAX T2=9.0±0.3  
 \* FOR EL OR NO BACKLIGHT  
 T1=10.0MAX T2=5.0±0.3



NT-C1621A

16 CHARACTERS X 2 LINES



ALL DIMENSIONS ARE IN MM. TOLERANCE IS ±0.2  
 UNLESS OTHERWISE NOTED.