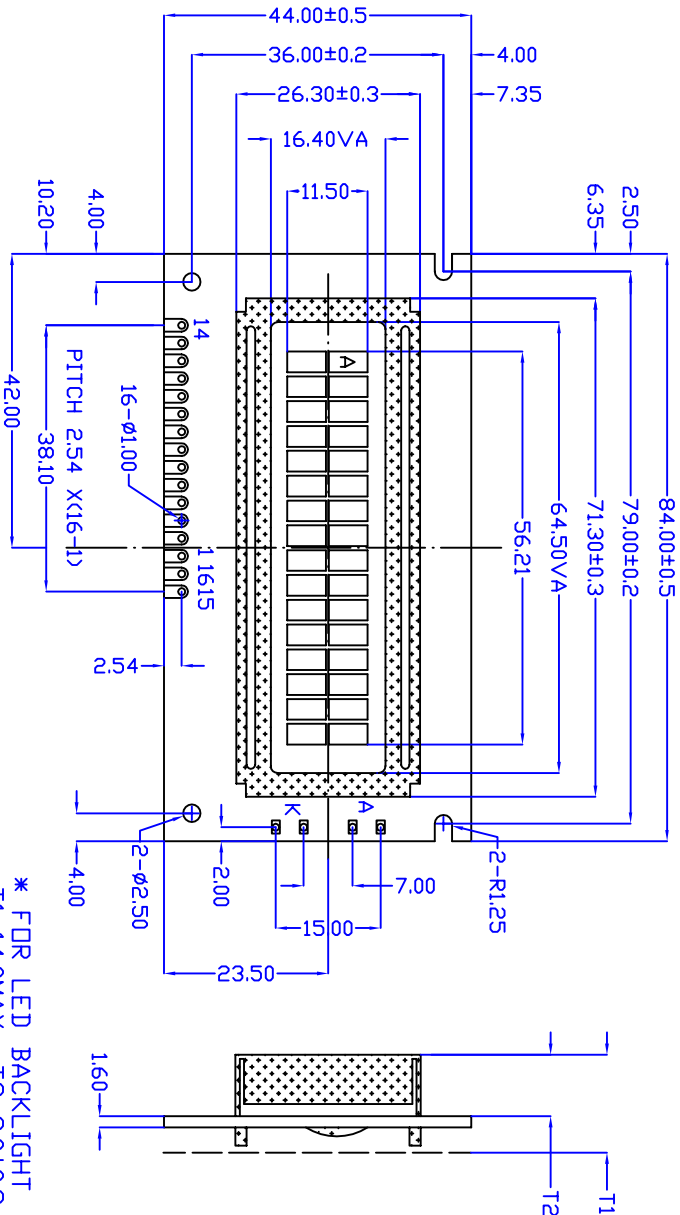
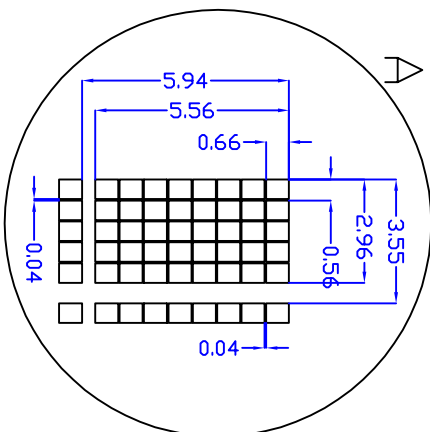
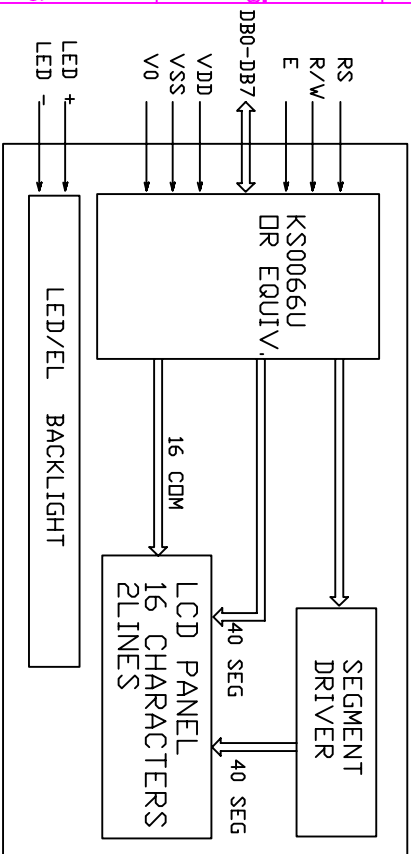




\* FDR LED BACKLIGHT  
T1=14.0MAX T2=9.0±0.3  
\* FDR EL OR ND BACKLIGHT  
T1=10.0MAX T2=5.0±0.3



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(VDD)     | VDD-VSS        | -0.3 | 7.0  | V    |
| POWER SUPPLY(LCD DRV) | VDD-V0         | -0.3 | 13.5 | V    |
| INPUT VOLTAGE         | V <sub>I</sub> | -0.3 | VDD  | V    |

ELECTRICAL CHARACTERISTICS (VDD=5.0±0.25V, 25°C)

| ELECTRICAL CHARACTERISTICS (VDD=5.0±0.25V, 25°C) |        |      |     |      |      |
|--------------------------------------------------|--------|------|-----|------|------|
| ITEM                                             | SYMBOL | MIN  | TYP | MAX  | UNIT |
| VOLTAGE FOR LOGIC(VDD-VSS)                       |        | 4.75 | 5.0 | 5.25 | V    |
| SUPPLY CURRENT                                   | IDD    | —    | 1.3 | 2.2  | mA   |
| VOLTAGE FOR LCD                                  | VDD-V0 | —    | 4.6 | —    | V    |
| INPUT VOLTAGE                                    | HI VIH | 2.2  | —   | VDD  | V    |
|                                                  | LI VIL | -0.3 | —   | 0.6  | V    |
| OUTPUT VOLTAGE                                   | HO VOH | 2.4  | —   | —    | V    |
|                                                  | LO VOL | —    | —   | 0.4  | V    |

MECHANICAL SPECIFICATIONS

| ITEM            | SPECIFICATION                | UNIT |
|-----------------|------------------------------|------|
| OVERALL SIZE    | 84.0W x 44.0H 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: Y/G STN, GRAY STN, TN                      |
| 2. BACKLIGHT: WITHOUT BACKLIGHT, LED, EL                |
| 3. COLOR OF BACKLIGHT: Y/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        |

| NO. | DATE    | BY     | DESCRIPTION |
|-----|---------|--------|-------------|
| 1   | 01/08/2 | S.PANG | NEW RELEASE |

NT-C1624A

16 CHARACTERS X 2 LINES



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