



* FOR LED BACKLIGHT
 T1=14.0MAX T2=9.0±0.3
 * FOR EL DR ND BACKLIGHT
 T1=10.0MAX T2=5.0±0.3

| 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 | A | POWER SUPPLY FOR LED BACKLIGHT (+) |
| 16 | K | POWER SUPPLY FOR LED BACKLIGHT (-) |

| ITEM | SYMBOL | MIN | MAX | UNIT |
|----------------------|---------|------|------|------|
| POWER SUPPLY(VDD) | VDD-VSS | -0.3 | 7.0 | V |
| POWER SUPPLY(LCD DR) | VDD-V0 | -0.3 | 13.5 | V |
| INPUT VOLTAGE | V1 | -0.3 | VDD | V |

| ITEM | SYMBOL | MIN | TYP | MAX | UNIT |
|-------------------|---------|------|-----|------|------|
| VOLTAGE FOR LOGIC | VDD-VSS | 4.75 | 5.0 | 5.25 | V |
| SUPPLY CURRENT | IDD | - | 1.0 | 1.3 | mA |
| VOLTAGE FOR LCD | VDD-V0 | - | 4.6 | - | V |
| INPUT VOLTAGE | V1H | 2.2 | - | VDD | V |
| | V1L | -0.3 | - | 0.6 | V |
| OUTPUT VOLTAGE | V0H | 2.4 | - | - | V |
| | V0L | - | - | 0.4 | V |

| ITEM | SPECIFICATION | UNIT |
|-----------------|------------------------------|------|
| OVERALL SIZE | 60.0W x 37.5H x 14.0T(1.00T) | MM |
| VIEWING AREA | 45.0W x 13.5H | MM |
| CHARACTERS | 8 CHARACTERS x 1 LINES | MM |
| CHARACTER SIZE | 4.43W x 7.93H | MM |
| CHARACTER PITCH | 5.20W x 7.93H | 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 |

NT-C0812A

8 CHARACTERS X 1 LINES



NELY, YOUR SUPPLIER, AND YOUR PARTNER!

ALL DIMENSIONS ARE IN MM. TOLERANCE IS +/-0.2 UNLESS OTHERWISE NOTED.

| NO. | DATE | BY | DESCRIPTION |
|-----|----------|-----|-------------|
| 1 | 01/08/19 | ACH | NEW RELEASE |