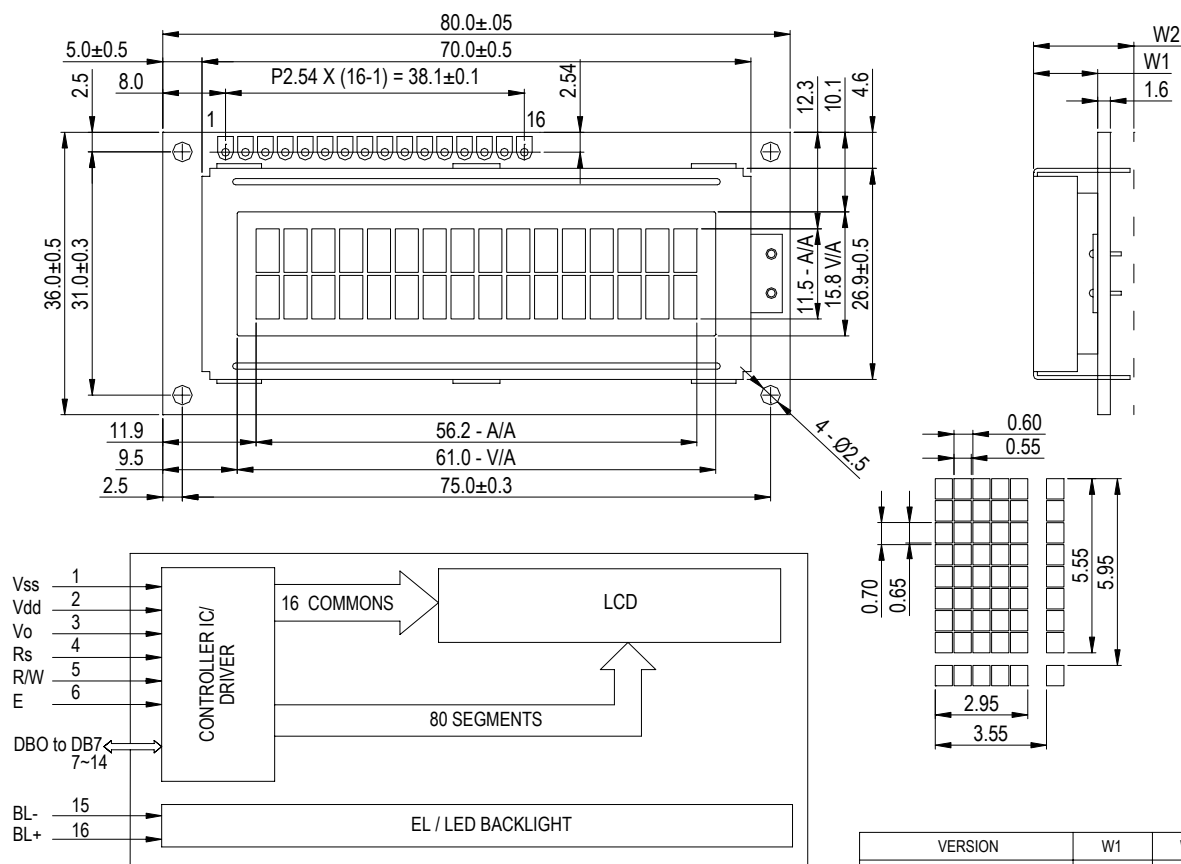




STANDARD CHARACTER MODULES

C216x01 OUTLINE DIMENSION AND BLOCK DIAGRAM



The tolerance unless classified ± 0.3 mm

| PIN ASSIGNMENT | | |
|----------------|--------|-----------------------------|
| Pin No. | Symbol | Function |
| 1 | Vss | Ground Terminal |
| 2 | Vdd | Supply Terminal |
| 3 | Vo | Power Supply for LCD driver |
| 4 | RS | Register Select Signal |
| 5 | R/W | Read/Write Selection |
| 6 | E | Enable Signal |
| 7 | DB0 | Data Bus Line |
| 8 | DB1 | Data Bus Line |
| 9 | DB2 | Data Bus Line |
| 10 | DB3 | Data Bus Line |
| 11 | DB4 | Data Bus Line |
| 12 | DB5 | Data Bus Line |
| 13 | DB6 | Data Bus Line |
| 14 | DB7 | Data Bus Line |
| 15 | BL- | Led Backlight Ground |
| 16 | BL+ | Led Backlight Power Supply |

OPTION - REVERSE BACKLIGHT CONNECTION

| | | |
|----|-----|----------------------------|
| 15 | BL+ | Led Backlight Power Supply |
| 16 | BL- | Led Backlight Ground |

NOTE :

- BACKLIGHT - YELLOW GREEN AND RED : BOTTOM LED BACKLIGHT
- BACKLIGHT - OTHER COLOR : SIDE LED BACKLIGHT

ABSOLUTE MAXIMUM RATING

| Item | Symbol | Conditions | Min. | Max. | Unit |
|----------------------|-----------------------|------------|--------|------|--------|
| Power Supply Voltage | Vdd-Vss | - | -0.3 | 7.0 | V |
| Input Voltage | Vin | - | Vss | Vdd | V |
| NORMAL | OPERATING TEMPERATURE | Topr | Normal | 0 | +50 °C |
| | STORAGE TEMPERATURE | Tstg | Normal | -20 | +70 °C |
| WIDE | OPERATING TEMPERATURE | Topr | Normal | -20 | +70 °C |
| | STORAGE TEMPERATURE | Tstg | Normal | -30 | +80 °C |

ELECTRICAL CHARACTERISTIC (Vdd = + 5v, Ta = 25°C)

| Item | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|-----------------------|------------------|------------|---------|------|--------|------|
| Logic Supply Voltage | Vdd | - | 4.5 | 5.0 | 5.5 | V |
| "H" Input Voltage | V _{ih} | - | 0.7Vdd | - | Vdd | V |
| "L" Input Voltage | V _{il} | - | -0.3 | - | 0.6 | V |
| "H" Output Voltage | V _{oh} | - | 0.75Vdd | - | - | V |
| "L" Output Voltage | V _{ol} | - | - | - | 0.2Vdd | V |
| Module Supply Current | Idd | - | - | 1.0 | 2.0 | mA |
| LCD Driving Voltage | V _{lcd} | Vdd-Vo | 4.3 | 4.5 | 4.7 | V |

BACKLIGHT OPTION

| LED COLOR | OPTION | CONDITION | FORWARD CURRENT (mA) | | |
|--------------|--------|---|------------------------|-----|-----|
| | | | MIN | TYP | MAX |
| YELLOW GREEN | YES | V _{led} = 5.0V R _{led} = 10ohm | - | 100 | 150 |
| WHITE | YES | V _{led} = 4.5V R _{led} = 47ohm | - | 30 | - |
| BLUE | YES | V _{led} = 4.5V R _{led} = 47ohm | - | 30 | - |
| AMBER | YES | V _{led} = 5.0V R _{led} = 100 ohm | - | 30 | - |
| RED | YES | V _{led} = 5.0V R _{led} = 10ohm | - | 100 | - |
| CCFL | NO | - | - | - | - |
| EL | NO | - | - | - | - |

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