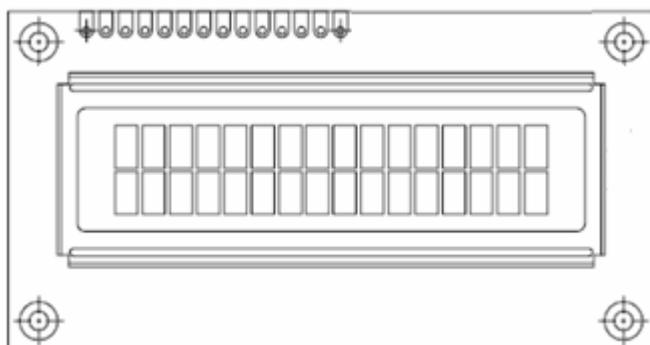


## 2 x 16 Character LCD Module NDM162



### FEATURES

- 5 x 7 dots with cursor
- Built-in controller HD44780
- + 5V power supply
- 1/16 duty cycle
- Backlight

| Mechanical Data  |             |      |
|------------------|-------------|------|
| Item             | Value       | Unit |
| Module Dimension | 80.0 x 36.0 | mm   |
| Viewing Area     | 65.0 x 14.0 | mm   |
| Dot Size         | 0.55 x 0.65 | mm   |
| Character Size   | 2.95 x 5.05 | mm   |

| Electrical Specification                                       |          |            |                |      |      |      |
|--|----------|------------|----------------|------|------|------|
| Item   | Symbol   | Condition  | Standard Value |      |      | Unit |
|  |          |            | Min.           | Typ. | Max. |      |
| Input Voltage  | VDD      | VDD = + 5V | 4.7            | 5    | 5.3  | V    |
| Supply Current   | IDD      | VDD = + 5V | -              | 1.2  | 3    | mA   |
| Recommended LC Driving Voltage for Normal Temp. Version Module | VDD - V0 | 0°C        | 4.2            | 4.6  | 5.0  | V    |
|  |          | 25°C       | 3.8            | 4.2  | 4.6  |      |
|  |          | 50°C       | 3.6            | 4.0  | 4.4  |      |





Character Table

| Upper<br>4bit<br>Lower<br>4bit | 0000             | 0010 | 0011 | 0100 | 0101 | 0110 | 0111 | 1010 | 1011 | 1100 | 1101 | 1110 | 1111 |
|--------------------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| xxxx0000                       | CG<br>HAM<br>(1) |      | 0    | a    | P    | \    | P    |      | -    | 9    | E    | o    | p    |
| xxxx0001                       | (2)              | !    | 1    | A    | Q    | a    | q    | n    | 7    | 7    | G    | 3    | g    |
| xxxx0010                       | (3)              | "    | 2    | B    | R    | b    | r    | "    | イ    | ツ    | ×    | p    | θ    |
| xxxx0011                       | (4)              | #    | 3    | C    | S    | c    | s    | !    | ウ    | 7    | E    | e    | ω    |
| xxxx0100                       | (5)              | \$   | 4    | D    | T    | d    | t    | ,    | エ    | ト    | ト    | μ    | Ω    |
| xxxx0101                       | (6)              | %    | 5    | E    | U    | e    | u    | .    | オ    | ナ    | 1    | ε    | Ω    |
| xxxx0110                       | (7)              | &    | 6    | F    | V    | f    | v    | 9    | カ    | ニ    | ヨ    | ρ    | Σ    |
| xxxx0111                       | (8)              | '    | 7    | G    | W    | g    | w    | 7    | 7    | 7    | 7    | g    | π    |
| xxx1000                        | (1)              | (    | 8    | H    | X    | h    | x    | 4    | ウ    | ホ    | リ    | r    | Σ    |
| xxx1001                        | (2)              | )    | 9    | I    | Y    | i    | y    | 9    | 7    | ル    |      | '    | γ    |
| xxx1010                        | (3)              | *    | #    | J    | Z    | j    | z    | エ    | コ    | ル    |      | j    | 7    |
| xxx1011                        | (4)              | +    | ;    | K    | C    | k    | c    | (    | オ    | サ    | ヒ    | °    | π    |
| xxx1100                        | (5)              | ,    | <    | L    | *    | l    | *    | 1    | 7    | 7    | 7    | φ    | π    |
| xxx1101                        | (6)              | -    | =    | M    | I    | m    | i    | 7    | ユ    | ズ    | 7    | ±    | ÷    |
| xxx1110                        | (7)              | .    | >    | N    | ^    | n    | ^    | 9    | エ    | ホ    | °    | ñ    |      |
| xxx1111                        | (8)              | /    | ?    | O    | _    | o    | _    | 9    | ウ    | 7    | °    | ö    |      |