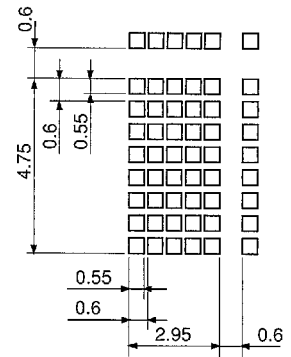


Series

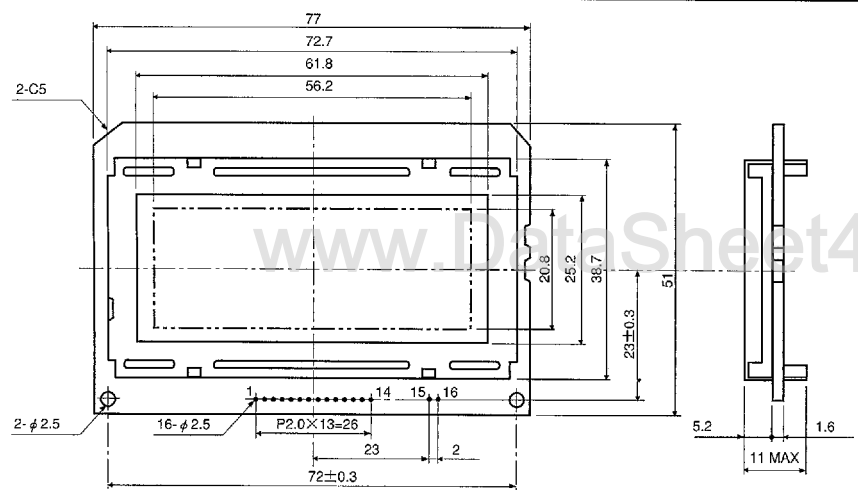
GMD1640C 16 Characters × 4 Lines 1/16 Duty



● Display Pattern



● Module Dimensions (Reflective)

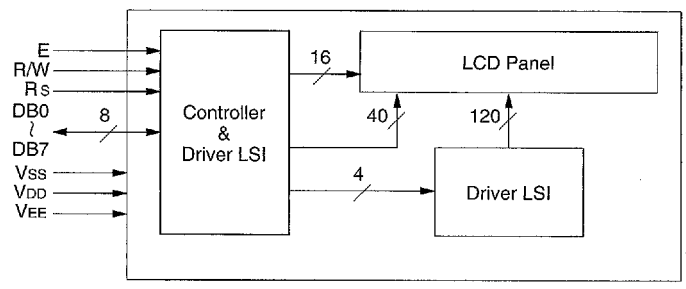


Unit : mm

● Interface Pin Functions

| Pin No. | Symbol | Level | Function | |
|---------|-----------------|-------|--|---------------------|
| 1 | V _{SS} | — | Power supply voltage | |
| 2 | V _{DD} | — | | 0V (GND) |
| 3 | V _{EE} | — | | +5V to drive LCD |
| 4 | R _s | H/L | Register Selection Signal H : Data Register L : Instruction Register | |
| 5 | R/W | H/L | H : Data Read (MPU←LCD) L : Data Write (MPU→LCD) | |
| 6 | E | H/L | Operation start signal for data read/write | |
| 7 | DB0 | H/L | Data Bus (lower order 4 lines) | |
| 8 | DB1 | H/L | | |
| 9 | DB2 | H/L | | |
| 10 | DB3 | H/L | | |
| 11 | DB4 | H/L | Data Bus (higher order 4 lines) | |
| 12 | DB5 | H/L | | |
| 13 | DB6 | H/L | | |
| 14 | DB7 | H/L | | |
| 15 | NC | — | | |
| 16 | NC | — | | |

● Block Diagram



● DD RAM Address

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Line 1 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
| Line 2 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 4A | 4B | 4C | 4D | 4E | 4F |
| Line 3 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 1A | 1B | 1C | 1D | 1E | 1F |
| Line 4 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 5A | 5B | 5C | 5D | 5E | 5F |