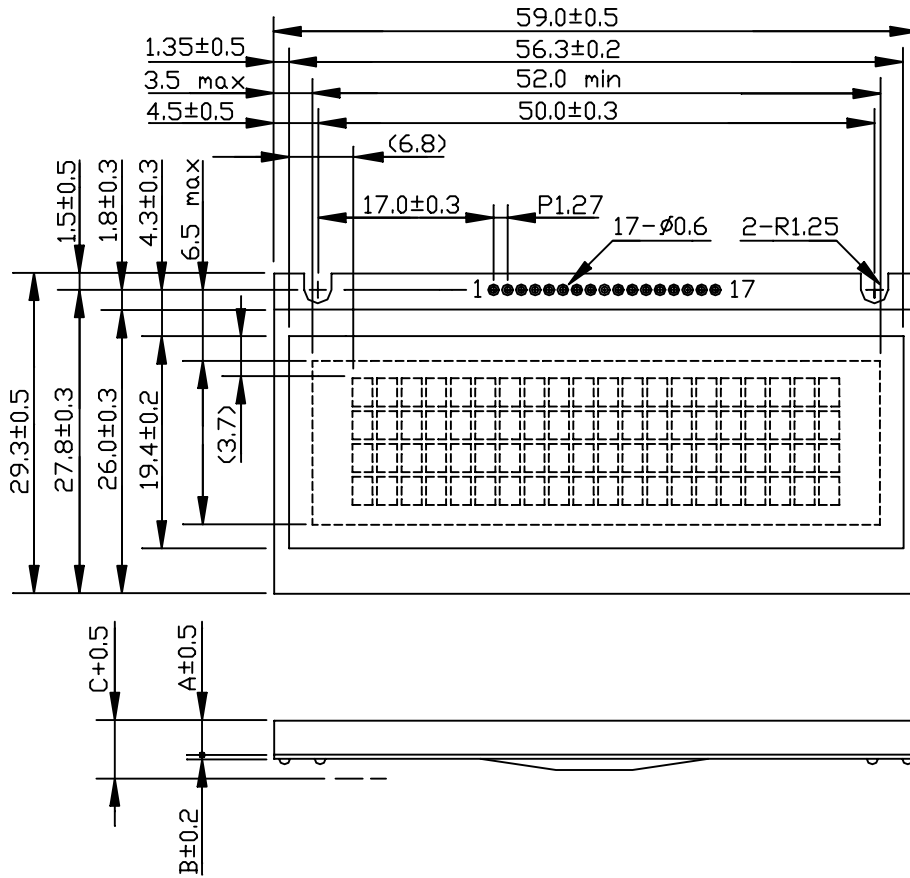
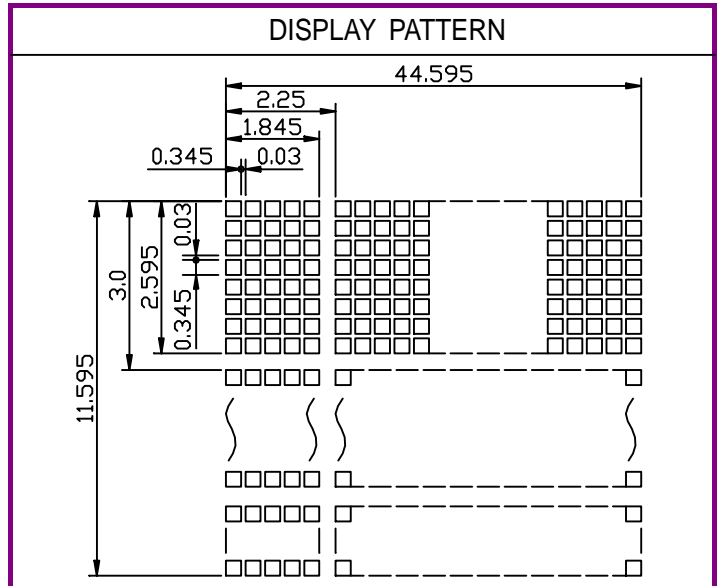


EXTERNAL DIMENSION



UNIT: mm

| THICKNESS | A | B | C | UNIT |
|------------------|-----|-----|-----|------|
| LED B.L & NO B.L | 3.1 | 0.4 | 5.0 | mm |



| PIN CONNECTIONS | | | | | | |
|-----------------|---------|-----|-----|-----|-----|-----|
| PIN NO | 1 | 2 | 3 | 4 | 5 | |
| SYMBOL | LED (-) | VSS | VDD | Vo | RS | |
| PIN NO | 6 | 7 | 8 | 9 | 10 | 11 |
| SYMBOL | R/W | DB0 | DB1 | DB2 | DB3 | DB4 |
| PIN NO | 12 | 13 | 14 | 15 | 16 | |
| SYMBOL | DB5 | DB6 | DB7 | RST | IM | |

| DISPLAY DATA ADDRESS CHARTS | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Character | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| LINE 1 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F | 10 | 11 | 12 | 13 |
| LINE 2 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 2A | 2B | 2C | 2D | 2E | 2F | 30 | 31 | 32 | 33 |
| LINE 3 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 4A | 4B | 4C | 4D | 4E | 4F | 50 | 51 | 52 | 53 |
| LINE 4 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 6A | 6B | 6C | 6D | 6E | 6F | 70 | 71 | 72 | 73 |