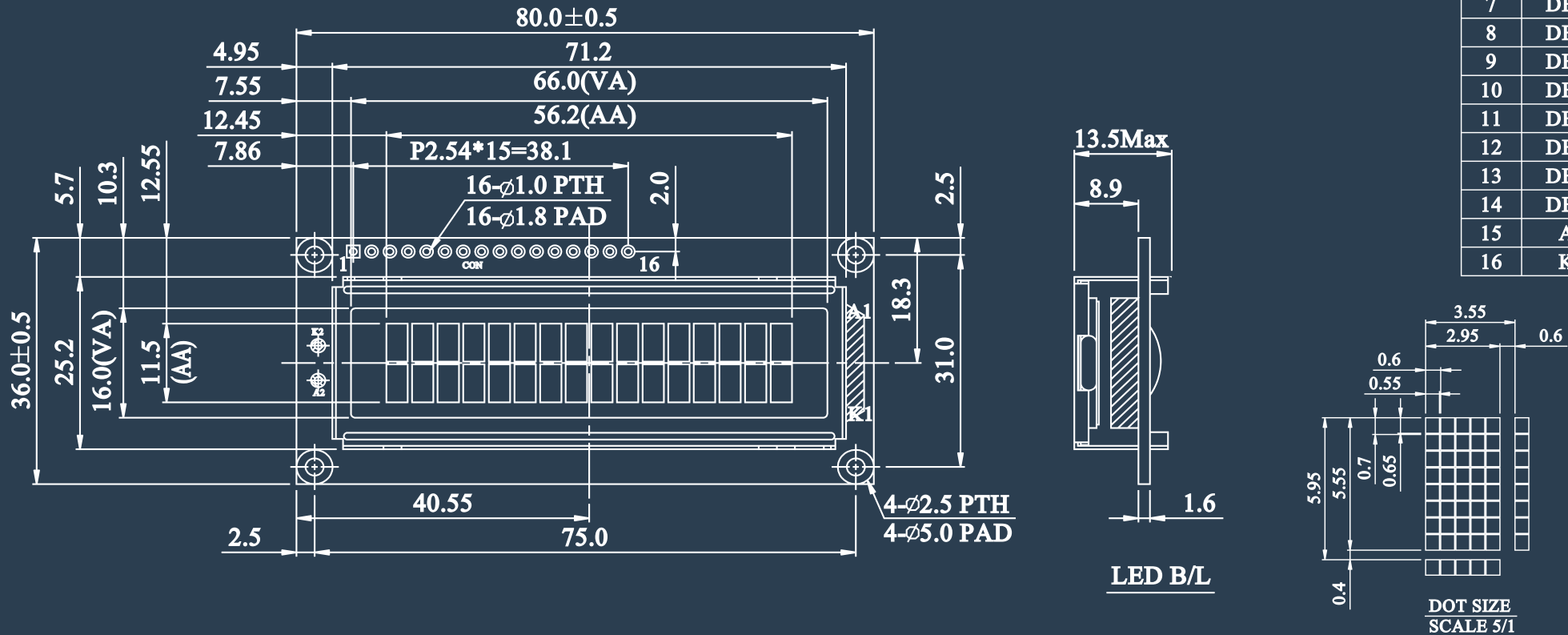


SLD1602B-BW12 16x2 STN Negative Blue Character LCD Display

PIN NO.	SYMBOL
1	V _{SS}
2	V _{DD}
3	V _O
4	RS
5	R/ \bar{W}
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A
16	K



The non-specified tolerance of dimensions is ±0.3mm

A 16x2 LCD is usually driven by an HD44780-compatible controller. It can be interfaced in 8-bit mode or 4-bit mode; 4-bit mode is more common because it uses fewer MCU pins. In 4-bit mode, only DB4-DB7 are used, and each byte is sent in two nibbles, high nibble first.

A standard 4-bit initialization for 2-line mode is:

- 1 Wait after power-up
- 2 Send 0x33
- 3 Send 0x32
- 4 Send 0x28 → 4-bit, 2-line, 5x8 font
- 5 Send 0x0C → display ON, cursor OFF
- 6 Send 0x06 → entry mode
- 7 Send 0x01 → clear display

Common commands include:

- 0x01 clear display
- 0x02 return home
- 0x0C display on, cursor off
- 0x0E display on, cursor on
- 0x80 set cursor to first line
- 0xC0 set cursor to second line

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