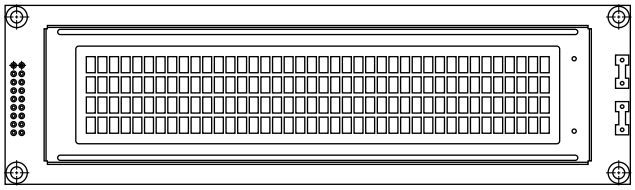
40 x 4 Character LCD



FEATURES

- Type: Character
- Display format: 40 x 4 characters
- Built-in controller: ST 7066 (or equivalent)
- Duty cycle: 1/16
- 5 x 8 dots includes cursor
- + 5 V power supply (also available for + 3 V)
- LED can be driven by pin 1, pin 2, pin 17, pin 18 or A and K
- N.V. optional for + 3 V power supply
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	190.0 x 54.0	mm
Viewing Area	147.0 x 29.5	
Dot Size	0.50 x 0.55	
Dot Pitch	0.57 x 0.62	
Mounting Hole	183.0 x 47.0	
Character Size	2.78 x 4.89	

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	V_{DD} to V_{SS}	- 0.3	-	7.0	V
Input Voltage	V_I	- 0.3	-	V_{DD}	

Note

- V_{SS} = 0 V, V_{DD} = 5.0 V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	V_{DD}	V_{DD} = + 5 V	4.7	5.0	5.3	V
		V_{DD} = + 3 V	2.7	3.0	5.3	
Supply Current	I_{DD}	V_{DD} = + 5 V	-	2.4	3.0	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	4.9	5.1	5.5	V
		0 °C	4.5	4.8	5.1	
		25 °C	4.1	4.5	4.7	
		50 °C	3.8	4.2	4.4	
		70 °C	3.5	3.9	4.1	
LED Forward Voltage	V_F	25 °C	-	4.2	4.6	V
LED Forward Current	I_F	25 °C	-	600	1200	mA
EL Power Supply Current	I_{EL}	V_{EL} = 110 V_{AC}, 400 Hz	-	-	5.0	mA

OPTIONS

PROCESS COLOR						BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
x	x	x	x	x		x	x	x	

For detailed information, please see the “Product Numbering System” document.

DISPLAY CHARACTER ADDRESS CODE

Display Position

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	...	36	37	38	39	40	
DD RAM Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	...	23	24	25	26	27	Line 1
DD RAM Address	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	...	63	64	65	66	67	Line 2
DD RAM Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	...	23	24	25	26	27	Line 3
DD RAM Address	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	...	63	64	65	66	67	Line 4

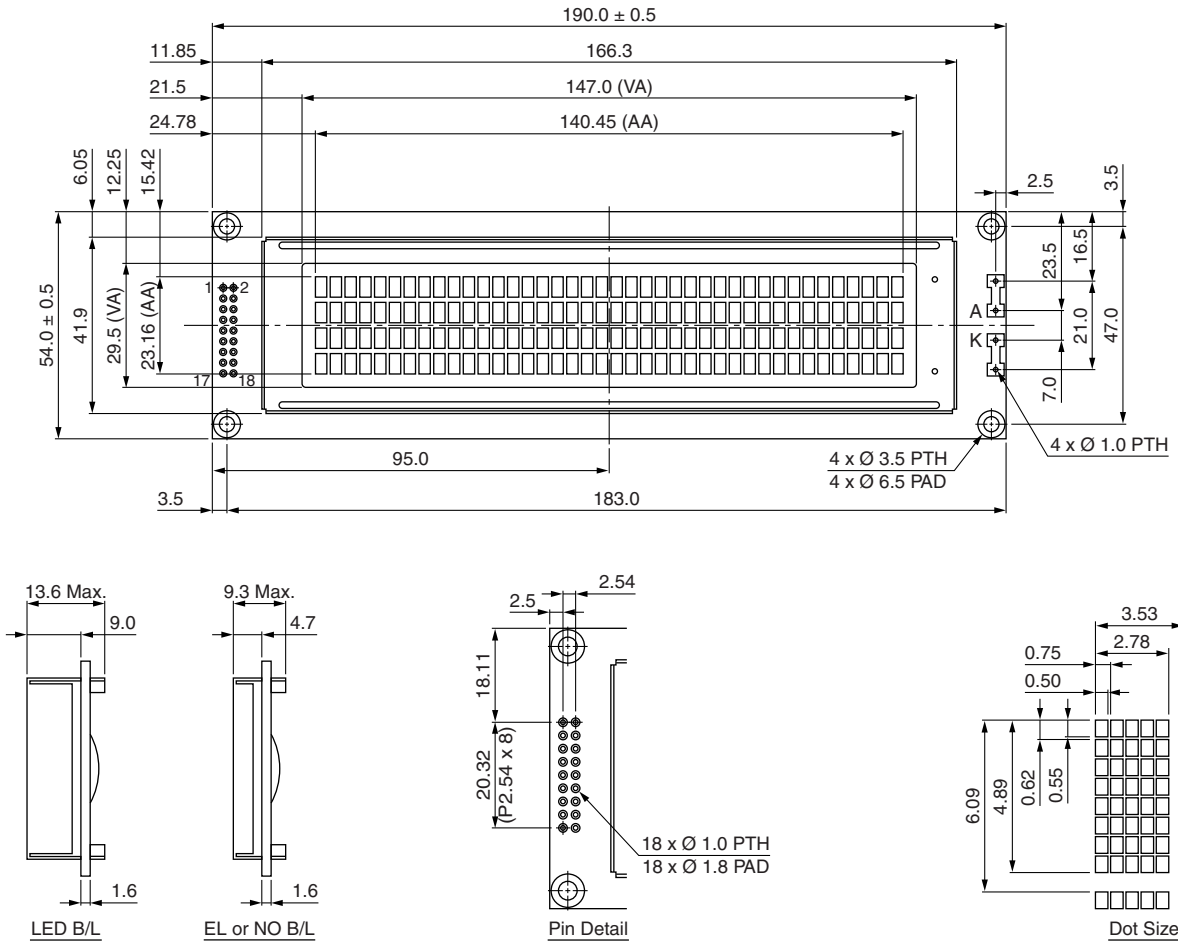
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INTERFACE PIN FUNCTION

PIN NO.	SYMBOL	FUNCTION
1	DB7	Data bus line
2	DB6	Data bus line
3	DB5	Data bus line
4	DB4	Data bus line
5	DB3	Data bus line
6	DB2	Data bus line
7	DB1	Data bus line
8	DB0	Data bus line
9	E1	H → L enable signal IC1
10	R/$\overline{W}$	H/L read/write
11	RS	Register select
12	V_0	Contrast adjustment
13	V_{SS}	Ground
14	V_{DD}	+ 5 V
15	E2	H → L enable signal IC2
16	NC/V_{EE}	NC/negative voltage output
17	A	
18	K	Ground

DIMENSIONS in millimeters



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