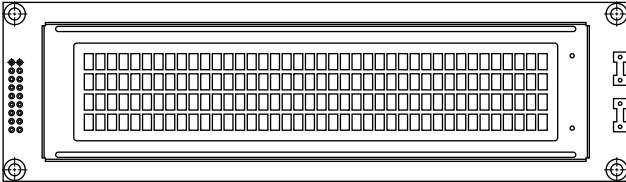


40 x 4 Character LCD



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


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

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
		- 20 °C	4.9	5.1	5.5	
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	0 °C	4.5	4.8	5.1	V
		25 °C	4.1	4.5	4.7	
		50 °C	3.8	4.2	4.4	
		70 °C	3.5	3.9	4.1	
		25 °C	-	4.2	4.6	
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

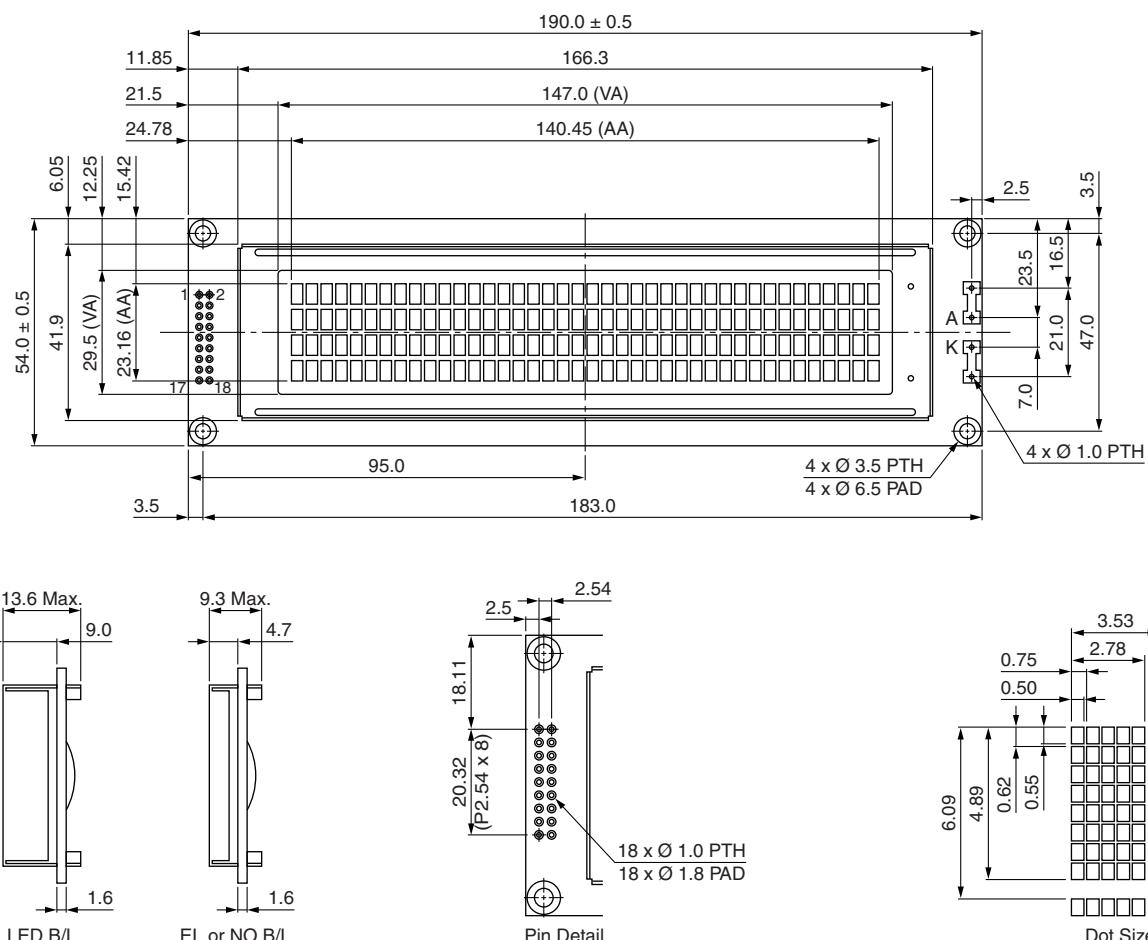
OPTIONS									
PROCESS COLOR						BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
x	x	x	x	x		x	x	x	

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
DD RAM Address	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	...	63	64	65	66	67
DD RAM Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	...	23	24	25	26	27
DD RAM Address	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	...	63	64	65	66	67

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/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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