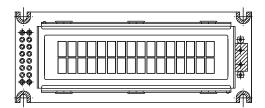
RoHS

COMPLIANT



16 x 2 Character LCD



FEATURES

• Type: Character

• Display format: 16 x 2 characters

• Built-in controller: ST 7066 (or equivalent)

• Duty cycle: 1/16

• 5 x 8 dots includes cursor

• + 5 V power supply

• LED can be driven by pin 1, pin 2, or A and K

• N.V. optional for + 3 V power supply

• Optional: Smaller character size (2.95 mm x 4.35 mm)

 Material categorization: For definitions of compliance please see www.vishav.com/doc?99912

MECHANICAL DATA							
ITEM	STANDARD VALUE	UNIT					
Module Dimension	85.0 x 32.6						
Viewing Area	66.0 x 16.0						
Dot Size	0.56 x 0.66	mm					
Dot Pitch	0.60 x 0.70] """					
Mounting Hole	79.0 x 25.2						
Character Size	2.96 x 5.56						

ABSOLUTE MAXIMUM RATINGS								
ITEM	SYMBOL	STAN	UNIT					
	STIVIBUL	MIN.	TYP.	MAX.	UNII			
Power Supply	V _{DD} to V _{SS}	- 0.3	-	7.0	V			
Input Voltage	VI	- 0.3	-	V_{DD}	v			

Note

• $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$

ELECTRICAL CHARACTERISTICS									
ITEM	SYMBOL	CONDITION	ST	UNIT					
	STINIBUL	CONDITION	MIN.	TYP.	MAX.	UNIT			
Input Voltage	V_{DD}	$V_{DD} = + 5 V$	4.7	5.0	5.3	V			
Supply Current	I _{DD}	$V_{DD} = + 5 V$	-	1.2	1.5	mA			
Recommended LC Driving		- 20 °C	-	-	5.2				
		0 °C	-	-	4.2				
Voltage for Normal Temperature	V_{DD} to V_{0}	25 °C	-	3.8	-	V			
Version Module		50 °C	3.5	-	-	1			
		70 °C	3.2	-	-	1			
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V			
LED Forward Current - Array		05.00	-	100	-	A			
LED Forward Current - Edge	l _F	25 °C	-	20	40	mA			
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA			

OPTIONS										
		PROCES	S COLOR				BACK	LIGHT		
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL	
х	х	х	х	х		x	х	х		

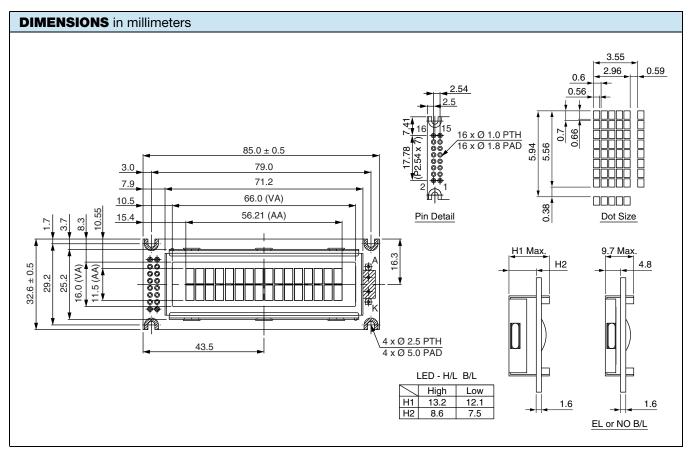
For detailed information, please see the "Product Numbering System" document.



www.vishay.com

DISPLAY CHARACTER ADDRESS CODE																
Display Position																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM Address	00	01	02	03	04	05	06	07	80	09	0A	0B	0C	0D	0E	0F
DD RAM Address	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F
BB 11/1W17/tdd1c55	-10		72	70		70	10	77	10	40	77.1	70	70	70	7_	

INTERFACE P	PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION	
1	V _{SS}	Ground	
2	V _{DD}	Power supply (+ 5 V)	
3	V ₀	Contrast adjustment	
4	RS	H/L register select signal	
5	R/W	H/L read/write signal	
6	E	$H \rightarrow L$ enable signal	
7	DB0	H/L data bus line	
8	DB1	H/L data bus line	
9	DB2	H/L data bus line	
10	DB3	H/L data bus line	
11	DB4	H/L data bus line	
12	DB5	H/L data bus line	
13	DB6	H/L data bus line	
14	DB7	H/L data bus line	
15	A/V _{EE}	Power supply for B/L	
16	К	Power supply for B/L	





Legal Disclaimer Notice

Vishay

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