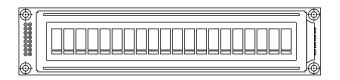


20 x 1 Character LCD



F	ΈA	T	JR	E	S

- Type: Character
- Display format: 20 x 1 characters
- Built-in controller: KS 0066 (or equivalent)
- Duty cycle: 1/16
- 5 x 7 dots includes cursor
- + 5 V power supply
- Compliant to RoHS directive 2002/95/EC

MECHANICAL DATA								
ITEM	STANDARD VALUE	UNIT						
Module Dimension	180.0 x 40.0							
Viewing Area	149.0 x 23.0							
Dot Size	1.152 x 1.765	mm						
Dot Pitch	1.212 x 1.825							
Mounting Hole	172.0 x 32.0	7						
Character Size	1.152 x 1.765							

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

Note

• $V_{SS} = 0 V, V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS										
ITEM	CYMPOL	CONDITION	ST							
	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT				
Input Voltage	V _{DD}	-	4.5	5.0	5.5	V				
Supply Current	I _{DD}	V _{DD} = + 5 V	1.0	1.2	1.5	mA				
		- 20 °C	-	-	5.7					
Recommended LC Driving	V_{DD} to V_0	0 °C	-	-	-					
Voltage for Normal Temperature		25 °C	-	4.2	-	V				
Version Module		50 °C	-	-						
		70 °C	3.2	-	-					
LED Forward Voltage	VF	25 °C	3.4	3.5	3.6	V				
LED Forward Current - Array		05.90	-	-	-					
LED Forward Current - Edge	IF	25 °C	50	60	75	- mA				
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA				

OPTIONS										
		PROCES	BACKLIGHT							
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL	
х	х	х	х			х	х	х		

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



COMPLIANT

Vishay

LCD-020N001B

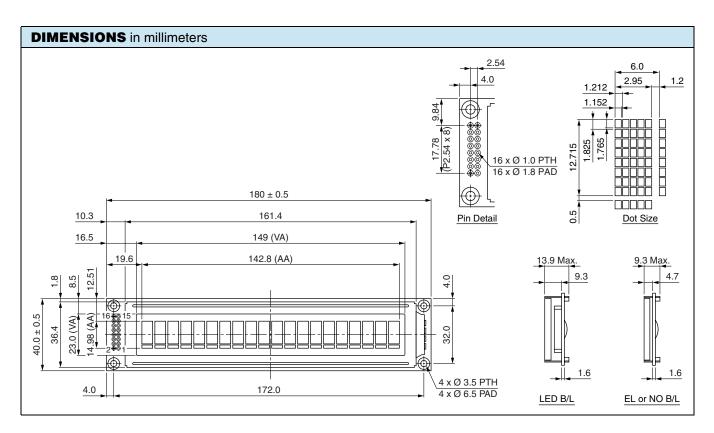
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20 x 1 Character LCD



DISPLAY CHARACTER ADDRESS CODE																				
Display Position																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DD RAM Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	10	11	12	13

INTERFACE	PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION	
1	V _{SS}	Ground	
2	V _{DD}	Supply voltage for logic	
3	V ₀	Operating voltage for LCD	
4	RS	H: Data/L: Instruction	
5	R/W	H: Read data/L: Write data	
6	E	Chip enable signal	
7	DB0	Data bit 0	
8	DB1	Data bit 1	
9	DB2	Data bit 2	
10	DB3	Data bit 3	
11	DB4	Data bit 4	
12	DB5	Data bit 5	
13	DB6	Data bit 6	
14	DB7	Data bit 7	
15	A	LED +	
16	К	LED -	





Vishay

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