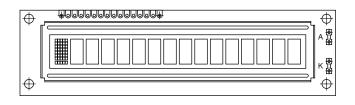


LCD-016N001L

Vishay

16 x 1 Character LCD



FEA1	FURES

- Type: Character
- Display format: 16 x 1 characters
- Built-in controller: KS 0066 (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 15, pin 16 or A and K
- N.V. optional for + 3 V power supply
- Compliant to RoHS directive 2002/95/EC

MECHANICAL DATA						
ITEM	STANDARD VALUE	UNIT				
Module Dimension	122.0 x 33.0					
Viewing Area	99.0 x 13.0					
Dot Size	0.92 x 1.10	mm				
Dot Pitch	0.98 x 1.16					
Mounting Hole	115.0 x 25.2					
Character Size	4.84 x 8.06					

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

Note

• $V_{SS} = 0 V, V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS									
ITEM	SYMBOL	CONDITION	ST	STANDARD VALUE					
	STMBOL	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	1.4	mA			
Recommended LC Driving		- 20 °C	4.9	5.1	5.5				
		0 °C	4.5	4.8	5.1				
Voltage for Normal Temperature	V_{DD} to V_0	25 °C	4.1	4.5	4.7	V			
Version Module		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	-	160	-	mA			

OPTION	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	х	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	15	16
DD RAM Address	00	01	02	03	04	05	06	07	40	41	42	43	44	45	46	47



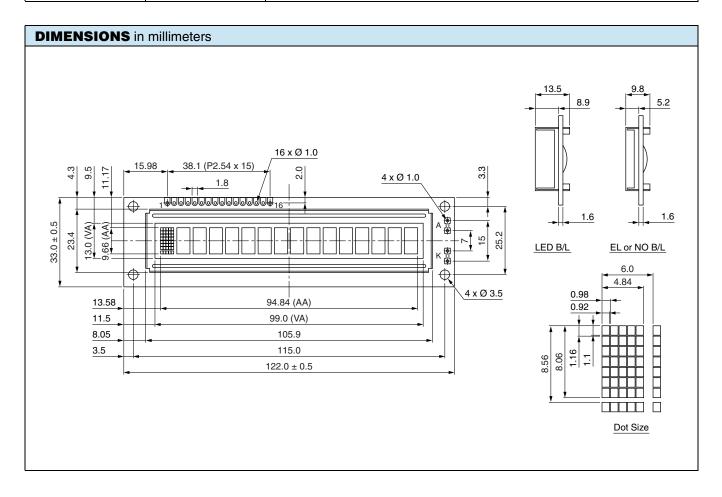
COMPLIANT

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16 x 1 Character LCD

INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
1	V _{SS}	Ground				
2	V _{DD}	+ 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}	+ 4.2 V for LED ($R_A = 0 \Omega$)/negative voltage output				
16	К	Power supply for B/L (0 V)				





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