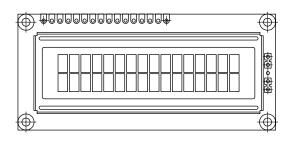


LCD-016N002B

Vishay

16 x 2 Character LCD



FEATURES

- Type: Character
- Display format: 16 x 2 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
- Optional: Smaller character size (2.95 mm x 4.35 mm)
- Compliant to RoHS directive 2002/95/EC

MECHANICAL DATA								
ITEM	STANDARD VALUE	UNIT						
Module Dimension	80.0 x 36.0							
Viewing Area	66.0 x 16.0							
Dot Size	0.55 x 0.65	mm						
Dot Pitch	0.60 x 0.70							
Mounting Hole	75.0 x 31.0							
Character Size	2.96 x 5.56							

ABSOLUTE MAXIMUM RATINGS							
ITEM	SYMBOL	STAN	IDARD V	ALUE	UNIT		
	STWDOL	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					
	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	1.5	mA		
Recommended LC Driving		- 20 °C	-	-	5.2			
	V_{DD} to V_0	0 °C	-	-	4.2			
Voltage for Normal Temperature		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	1	05.00	-	100	-			
LED Forward Current - Edge	- IF	25 °C	-	20	40	mA		
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	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	х		

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



LCD-016N002B

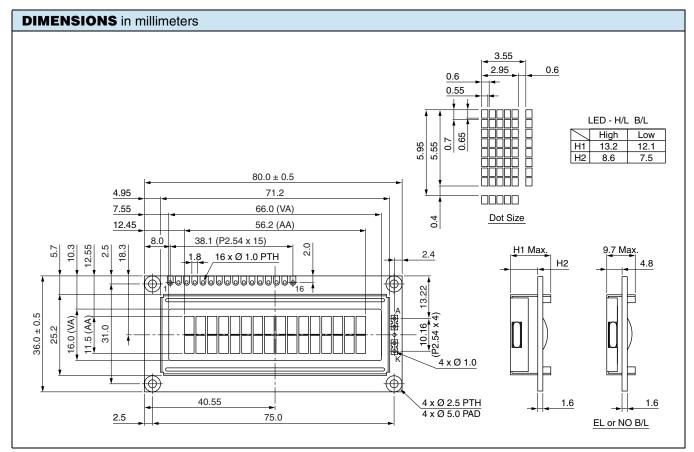
Vishay

16 x 2 Character LCD



DISPLAY CHA	RAC	FER /	\DD R	ESS	COD	E										
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	08	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

INTERFACE PIN FUNCTION							
PIN NO.	SYMBOL	FUNCTION					
1	V _{SS}	Ground					
2	V _{DD}	+ 3 V or + 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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