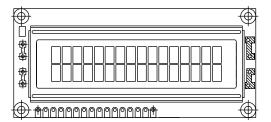




Character Size

16 x 2 Character LCD



MECHANICAL DATA								
ITEM	STANDARD VALUE	UNIT						
Module Dimension	85.0 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 v 31.0							

2.95 x 5.55

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

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

Note

V_{SS} = 0 V, V_{DD} = 5.0 V

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	ST	LINUT			
	STWIBOL	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 Voltage for Normal Temperature		- 20 °C	-	-	5.2		
	V _{DD} to V ₀	0 °C	-	-	4.2	1	
		25 °C	-	3.8	-	٧	
Version Module		50 °C	3.5	-	-	-	
		70 °C	3.2	-	-		
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	٧	
LED Forward Current - Array		05.00	-	100	-	0	
LED Forward Current - Edge	⊢ I _F	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	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.

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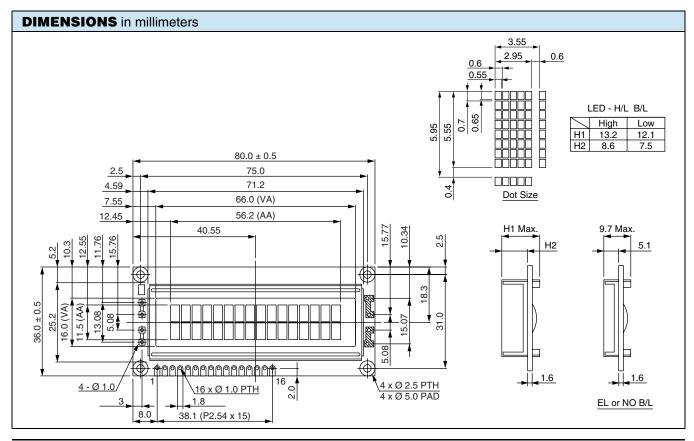
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16 x 2 Character LCD



DISPLAY CHA	RAC1	TER A	ADDR	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	$ extsf{H} ightarrow extsf{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	K	Power supply for B/L (0 V)



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