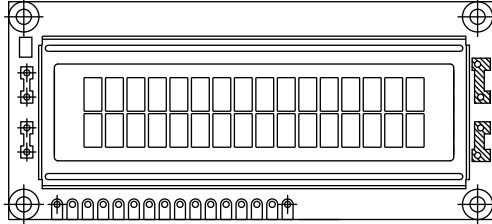


16 x 2 Character LCD



FEATURES

- Type: character
- Display format: 16 x 2 characters
- Built-in controller: ST7066
- 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)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module dimension	85.0 x 36.0	mm
Viewing area	66.0 x 16.0	
Dot size	0.55 x 0.65	
Dot pitch	0.60 x 0.70	
Mounting hole	75.0 x 31.0	
Character size	2.95 x 5.55	

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power supply	V_{DD} to V_{SS}	-0.3	-	7.0	V
Input voltage	V_I	-0.3	-	V_{DD}	

Note

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

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input voltage	V_{DD}	$V_{DD} = +5\text{ V}$	4.7	5.0	5.3	V
Supply current	I_{DD}	$V_{DD} = +5\text{ V}$	-	1.2	1.5	mA
Recommended LC driving voltage for normal temperature version module	V_{DD} to V_0	-20 °C	-	-	5.2	V
		0 °C	-	-	4.2	
		25 °C	-	3.8	-	
		50 °C	3.5	-	-	
70 °C	3.2	-	-			
LED forward voltage	V_F	25 °C	-	4.2	4.6	V
LED forward current - array	I_F	25 °C	-	100	-	mA
LED forward current - edge			-	20	40	
EL power supply current	I_{EL}	$V_{EL} = 110\text{ V}_{AC}$, 400 Hz	-	-	5.0	mA

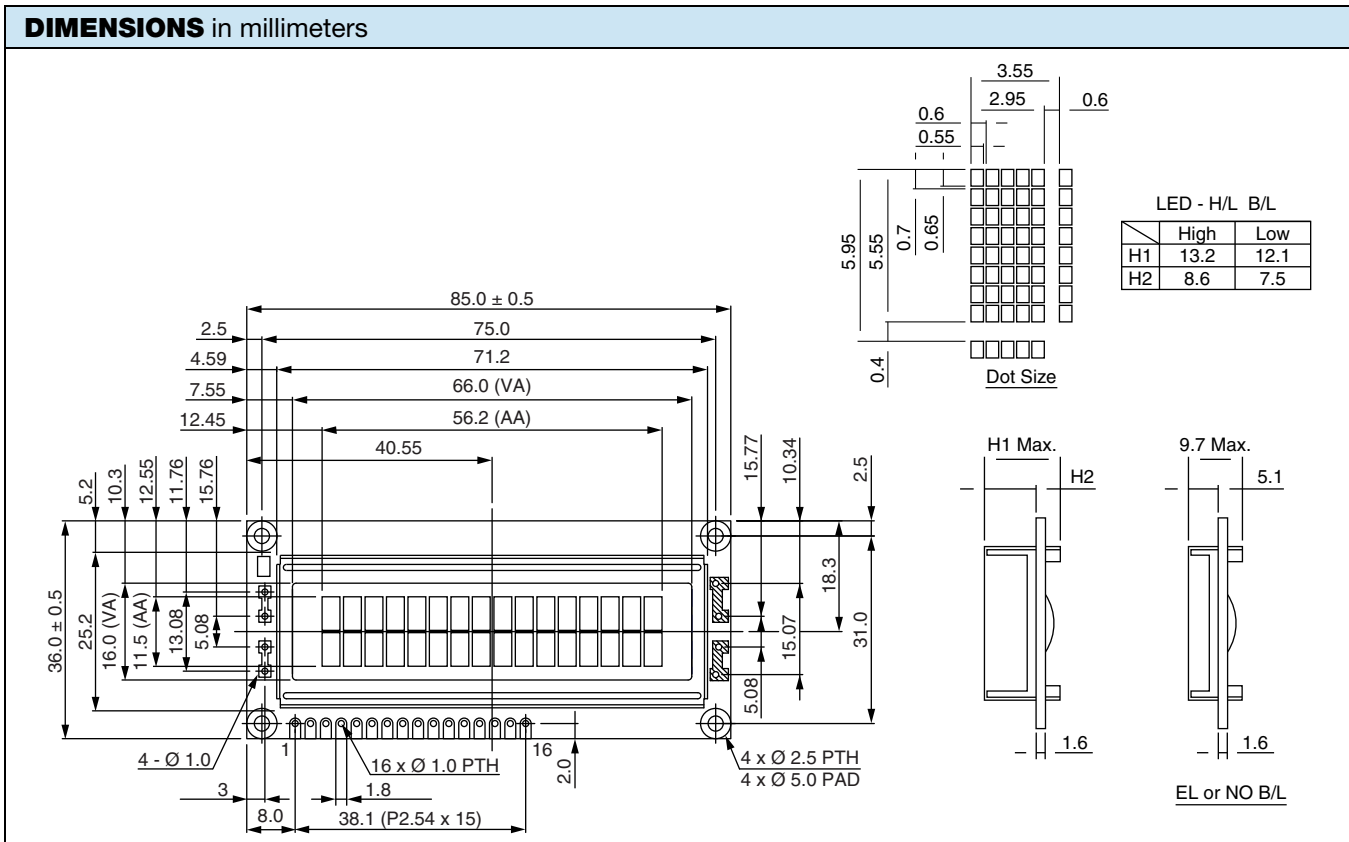
OPTIONS									
PROCESS COLOR						BACKLIGHT			
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
x	x	x	x	-	-	x	x	x	-

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	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 / \bar{W}	H / L read / write signal
6	E	H → 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 Ω) / negative voltage output
16	K	Power supply for backlight (0 V)





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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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