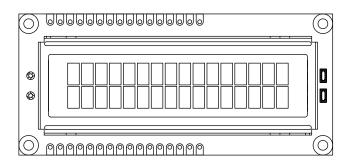


Vishay

COMPLIANT

16 x 2 Character LCD



FEATURES

Type: Character

• Display format: 16 x 2 characters

• Built-in controller: ST 7066

• Duty cycle: 1/16

• 5 x 8 dots includes cursor

• + 5 V power supply

• Material categorization: For definitions of compliance

please see www.vishav.com/doc?99912

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	mm							
Mounting Hole	75.0 x 31.0								
Character Size	2.95 x 5.55								

ABSOLUTE MAXIMUM RATINGS									
ITEM	SYMBOL	STAN	UNIT						
I I EIVI	STIVIDOL	MIN.	TYP.	MAX.	UNII				
Power Supply	V_{DD} to V_{SS}	- 0.3	-	7.0	V				
Input Voltage	VI	- 0.3	ı	V_{DD}	V				

Note

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

ELECTRICAL CHARACTERISTICS										
ITEM	CVMPOL	COMPITION	ST							
	SYMBOL	CONDITION	MIN. TYP.		MAX.	UNIT				
Input Voltage	V_{DD}	V _{DD} = + 5 V	4.5	5.0	5.5	V				
Supply Current	I _{DD}	V _{DD} = + 5 V	1.0	1.2	1.5	mA				
Recommended LC Driving Voltage for Normal Temperature Version Module	V _{DD} to V ₀	- 20 °C	4.9	5.2	5.5					
		0 °C	4.5	4.8	5.1	V				
		25 °C	4.1	4.4	4.7	7 °				
		70 °C	3.5	4.0	4.1					
LED Forward Voltage	V _F	25 °C	-	-	140	V				
LED Forward Current - Array	I _F	25 °C	-	-	5.0	mA				
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	-	mA				

OPTIONS	5								
		PROCES	BACKLIGHT						
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
х	x	x	x	x		x	x	x	

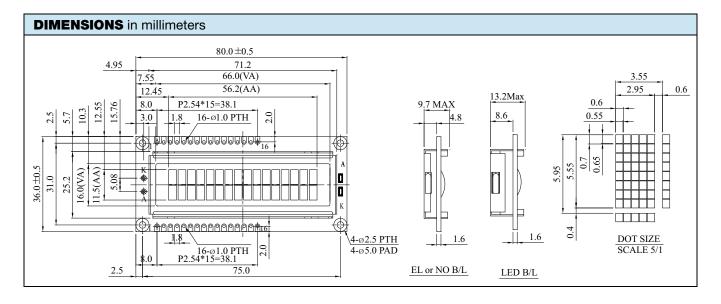
For detailed information, please see the "Product Numbering System" document.



www.vishay.com

DISPLAY CHAP	RACTE	ER AC	DRE	ss c	ODE											
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 FUNCTIONS							
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 code					
5	R/W	H: read (MPU \rightarrow module)/L: write (MPU \rightarrow module)					
6	E	Chip enable signal					
7	DB0	Data bus line					
8	DB1	Data bus line					
9	DB2	Data bus line					
10	DB3	Data bus line					
11	DB4	Data bus line					
12	DB5	Data bus line					
13	DB6	Data bus line					
14	DB7	Data bus line					
15	A	LED +					
16	K	LED -					





Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.