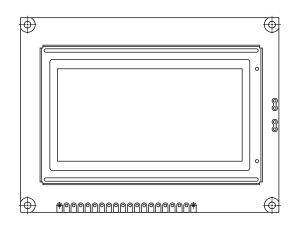


Vishay

## 128 x 64 Graphic LCD



MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module Dimension	93.0 x 70.0			
Viewing Area	72.0 x 40.0			
Dot Size	0.48 x 0.48			
Dot Pitch	0.52 x 0.52	mm		
Mounting Hole	88.0 x 65.0			
Character Size	N/a			

## FEATURES

- Type: Graphic
- Display format: 128 x 64 dots
- Built-in controller: Samsung KS 0107/KS 0108 (or equivalent)
- Duty cycle: 1/64
- + 5 V power supply
- N.V. built-in
- Compliant to RoHS directive 2002/95/EC

ABSOLUTE MAXIMUM RATINGS						
ІТЕМ	SYMBOL	STAN	UNIT			
	STWBOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	$V_{\text{DD}}$ to $V_{\text{SS}}$	4.75	5.0	5.25	v	
Input Voltage	VI	- 0.3	-	V <sub>DD</sub>	V	

Note

•  $V_{SS} = 0 V, V_{DD} = 5.0 V$ 

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	ST	UNIT			
	STMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltago	V <sub>DD</sub>	L level	0.7 V <sub>DD</sub>	-	V <sub>DD</sub>	v	
Input Voltage	V <sub>IO</sub>	H level	0	-	0.3 V <sub>DD</sub>	v	
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> = + 5 V	-	2.5	7.5	mA	
		- 20 °C	9.9	10.4	10.9		
Recommended LC Driving		0 °C	9.7	10.2	10.7		
Voltage for Normal Temperature	$V_{DD}$ to $V_0$	25 °C	8.9	9.4	9.9	V	
Version Module		50 °C	8.6	9.1	9.6		
		70 °C	8.4	8.9	9.4		
LED Forward Voltage	V <sub>F</sub>	25 °C	-	4.2	4.6	V	
LED Forward Current - Array	1	25 °C	-	330	660	mA	
LED Forward Current - Edge	– I <sub>F</sub>	2010	-	120	240		
EL Power Supply Current	I <sub>EL</sub>	V <sub>EL</sub> = 110 V <sub>AC</sub> , 400 Hz	-	-	5.0	mA	

OPTION	OPTIONS								
	PROCESS 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.

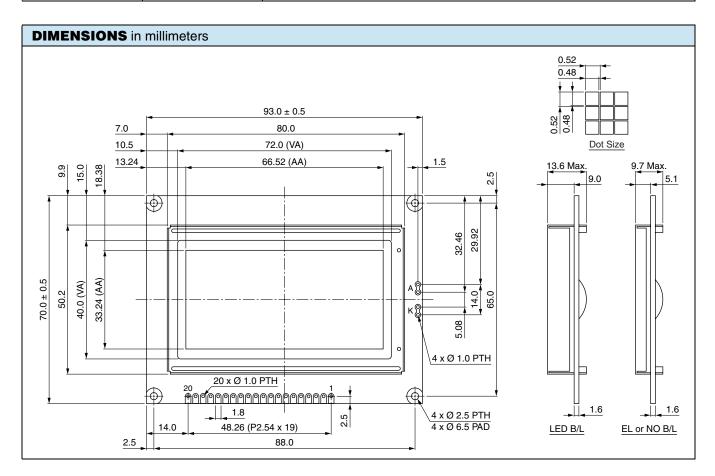


COMPLIANT

Vishay



INTERFACE PIN FUNCTION				
PIN NO.	SYMBOL	FUNCTION		
1	V <sub>SS</sub>	Ground		
2	V <sub>DD</sub>	Power supply (+ 5 V)		
3	V <sub>0</sub>	Contrast adjustment		
4	D/I	Data/instruction		
5	R/W	Data read/write		
6	E	$H \rightarrow L$ 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	CS1	Chip select for IC1		
16	CS2	Chip select for IC1		
17	RST	Reset		
18	V <sub>EE</sub>	Negative voltage output		
19	A	Power supply for LED (+ 4.2 V), $R_A = 0 \Omega$		
20	К	Power supply for LED (0 V)		





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.

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.

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Display Development Tools category:

Click to view products by Adafruit manufacturer:

Other Similar products are found below :

KIT 60121-3 S5U13L02P00C100 S5U13U11P00C100 4172800XX-3 TW8823-LC2-EVAL KIT 67134-3 LCD8000-43T CC-ACC-LCDW-70 TW8836-L-EVAL TW8819-NA2-CR-EVAL 121CBL02-RPK KIT 60145-3 S5U13748P00C100 DFR0413 ADM00931 3248 MIKROE-3158 MIKROE-3157 MIKROE-3159 104PW01F DLPLCR90EVM DLPLCR67EVM DLPLCR50XEVM DLPLCRC900DEVM DLPLCRC900EVM MAX20069EVKIT# LCD-16397 LCD-16398 KIT95000-3 LCD-16396 1109 MIKROE-2449 MIKROE-2453 TSC2007EVM TSC2007EVM-PDK 131 1316 1431 DEV-13628 1590 MIKROE-2269 1601 1673 1770 TPS65132BEVM UEZGUI-1788-70WVM 1947 1983 KIT 60110-3 KIT 60125-3