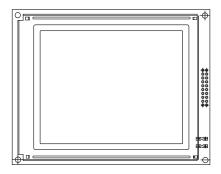




160 x 128 Dots Graphic LCD



FEATURES

- Built in controller TOSHIBA-(T6963C or equivalent)
- + 5V power supply
- 1/28 duty cycle
- · N.V. optional
- · Built in CCFL inverter

MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module Dimension	129.0 x 102.0	mm		
Viewing Area	101.0 x 82.0	mm		
Dot Size	0.54 x 0.54	mm		
Dot Pitch	0.58 x 0.58	mm		
Mounting Hole	122.0 x 96.2	mm		

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STAN	UNIT		
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	- 0.3	_	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE		UNIT	
			MIN.	TYP.	MAX.	
Input Voltage	VDD	L level	0.7V _{DD}	_	V _{DD}	V
	VIO	H level	0	_	0.3V _{DD}	V
Supply Current	IDD	VDD = 5V	_	45	50	mA
		- 20 °C	19.9	21.0	22.1	
Recommended LC Driving	VDD - V0	0°C	19.0	_	21.2	V
Voltage for Normal Temp.		25°C	18.6	19.1	19.6	
Version Module		50°C	16.2	16.5	16.8	
		70°C	11.6	9.1	12.8	
CCFL Forward Voltage	VF	25°C	_	256	560	V
CCFL Forward Current	IF	25°C	_	_	5.0	mA
LED Forward Voltage	VF	25°C	_	4.6	4.6	V
LED Forward Current	IF	25°C	_	_	500	mA

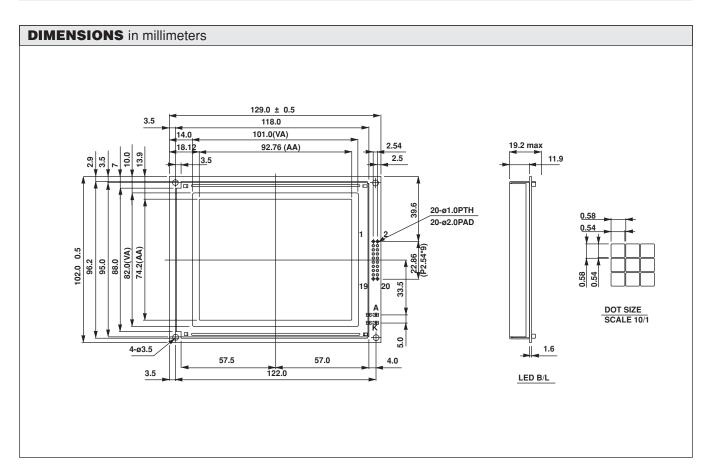
LCD-160G128B

Vishay

160 x 128 Dots Graphic LCD



PIN NUMBER	SYMBOL	FUNCTION		
1	FG	Frame Ground		
2	Vss	Power Supply (GND)		
3	Vdd	Power Supply (+ 5V)		
4	Vadj	Contrast Adjustment		
5	Vee	Negative Voltage Output		
6	\overline{WR}	Data Write		
7	RD	Data Read		
8	CE	Chip Enable		
9	C/D	Command/Data Read/Write		
10	HALT	Clock Operating Stop Signal		
11	Reset	Reset Signal		
12	DB0	Data Bus Line		
13	DB1	Data Bus Line		
14	DB2	Data Bus Line		
15	DB3	Data Bus Line		
16	DB4	Data Bus Line		
17	DB5	Data Bus Line		
18	DB6	Data Bus Line		
19	DB7	Data Bus Line		
20	NC	No Connection		





Vishay

Disclaimer

All product specifications and data are subject to change without notice.

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 herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

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.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Revision: 18-Jul-08

Document Number: 91000 www.vishay.com