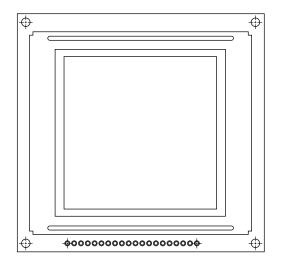




128 x 128 Graphic LCD



FEATURES

• Type: Graphic

Display format: 128 x 128 dotsBuilt-in controller: Sanyo LC7981

Duty cycle: 1/128+ 5 V power supply

• Compliant to RoHS directive 2002/95/EC



RoHS

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module Dimension	72.5 x 69.9				
Viewing Area	50.0 x 49.0				
Dot Size	0.32 x 0.32	mm			
Dot Pitch	0.35 x 0.35	mm			
Mounting Hole	67.4 x 64.9				
Character Size	N/a				

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
IIEWI	STWIDOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.25	V	
Input Voltage	VI	- 0.3	-	V_{DD}	\ \	

Note

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

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			LINUT	
			MIN.	TYP.	MAX.	UNIT	
Input Voltage	V_{DD}	L level	0.7 V _{DD}	-	V_{DD}	V	
	V_{IO}	H level	-	-	0.3 V _{DD}	V	
Supply Current	I _{DD}	V _{DD} = + 5 V	-	1.5	-	mA	
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	-	18.0	-	V	
		0 °C	-	17.5	-		
		25 °C	-	17.0	-		
		50 °C	-	16.0	-		
		70 °C	-	15.5	-		
LED Forward Voltage	V_{F}	25 °C	-	4.2	4.6	V	
LED Forward Current	I _F	25 °C	-	-	-	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA	

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	

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

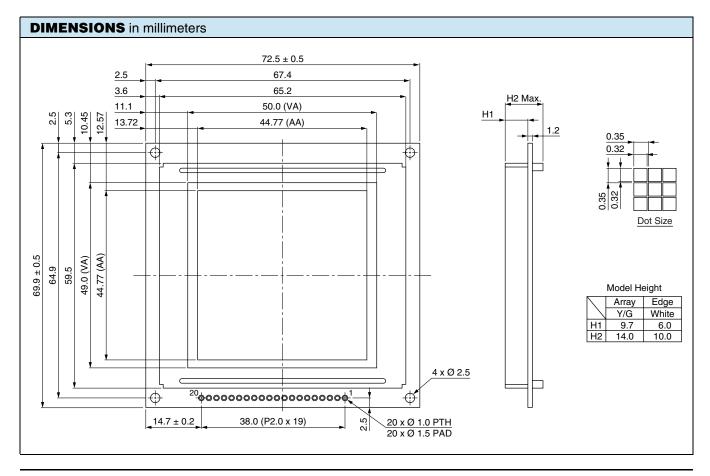
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128 x 128 Graphic LCD



INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	DB0	Data bus line			
2	DB1	Data bus line			
3	DB2	Data bus line			
4	DB3	Data bus line			
5	DB4	Data bus line			
6	DB5	Data bus line			
7	DB6	Data bus line			
8	DB7	Data bus line			
9	RS	Data/instruction select			
10	R/W	Date read/write			
11	E	Enable select			
12	CS	Chip select			
13	RES	Reset signal			
14	V ₀	Contrast adjustment			
15	V _{DD}	Power supply (+ 5 V)			
16	V _{SS}	Power supply (ground)			
17	V _{EE}	Negative voltage output			
18	Dispoff	No connection			
19	LED (+)	Power supply for LED B/L (+ 4.2 V)			
20	LED (-)	Power supply for LED B/L (0 V)			





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