

240 x 128 Graphic LCD



FEATURES

- Type: Graphic
- Display format: 240 x 128 dots
- Built-in controller: None
- Duty cycle: 1/128
- + 5 V power supply
- Built-in N.V.
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	170.0 x 93.6	mm
Viewing Area	128.0 x 75.0	
Dot Size	0.43 x 0.43	
Dot Pitch	0.45 x 0.45	
Mounting Hole	152.0 x 85.0	
Character Size	N/a	

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.25	V
Input Voltage	V_I	- 0.3	-	V_{DD}	

Note

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

ELECTRICAL CHARACTERISTICS

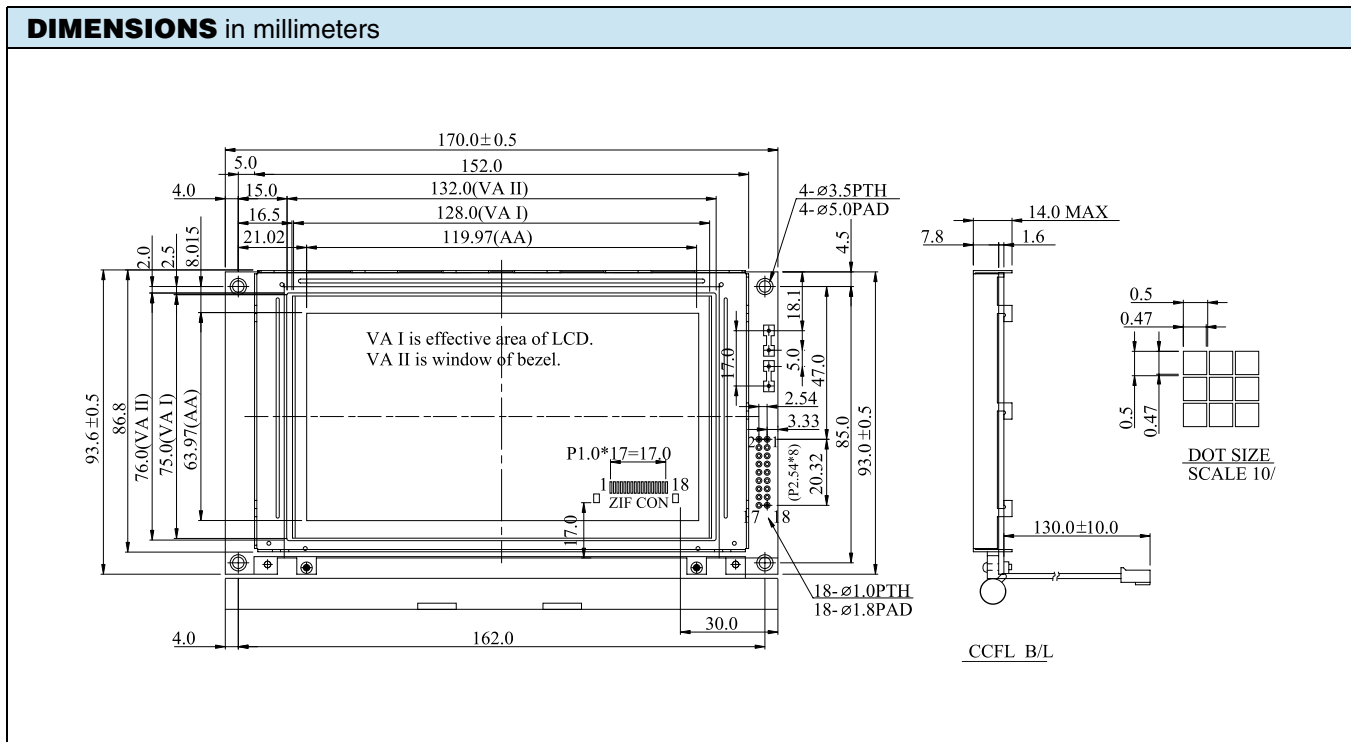
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	V_{DD}	L level	$0.7 V_{DD}$	-	V_{DD}	V
	V_{IO}	H level	-	-	$0.3 V_{DD}$	
Supply Current	I_{DD}	$V_{DD} = +5$ V	-	55	60	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	-	-	-	V
		0 °C	20.3	21.4	21.8	
		25 °C	12.1	19.1	22.1	
		50 °C	17.7	18.9	20.1	
LED Forward Voltage	V_F	25 °C	-	4.2	4.6	V
LED Forward Current	I_F	25 °C	-	900	1800	mA
CCFL Forward Voltage	V_F	25 °C	-	250	590	V_{RMS}
CCFL Forward Current	I_F	25 °C	-	-	5.5	mA_{RMS}
EL Power Supply Current	I_{EL}	$V_{EL} = 110 V_{AC}$, 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	x

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

INTERFACE PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION
1	F _{GND}	Frame ground
2	DB0	Data bus line
3	DB1	Data bus line
4	DB2	Data bus line
5	DB3	Data bus line
6	$\overline{\text{DISPOFF}}$	Display off when low level
7	FLM	Operating voltage for LCD
8	M	Control signal for AC driving
9	LP	Display data slatch
10	CP	Display data shift
11	V _{DD}	Power supply for (+ 5 V)
12	V _{SS}	Power supply for (Ground)
13	V _{EE}	Negative voltage output
14	V ₀	Contrast adjustment
15	RV	H/L data bus line
16	NC	No connection
17	A	Power supply for B/L
18	K	Power supply for B/L





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