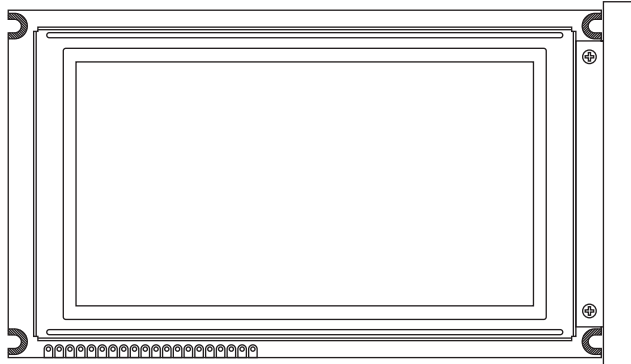


240 x 128 Graphic LCD



FEATURES

- Type: Graphic
- Display format: 240 x 128 dots
- Built-in controller: RA8806
- Duty cycle: 1/128
- + 5 V power supply (+ 3.3 V option)
- Built-in N.V.
- Chinese version
- Compliant to RoHS Directive 2002/95/EC


RoHS
COMPLIANT

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	140.0 x 82.0	mm
Viewing Area	114.0 x 64.0	
Dot Size	0.43 x 0.43	
Dot Pitch	0.45 x 0.45	
Mounting Hole	137.0 x 74.5	

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

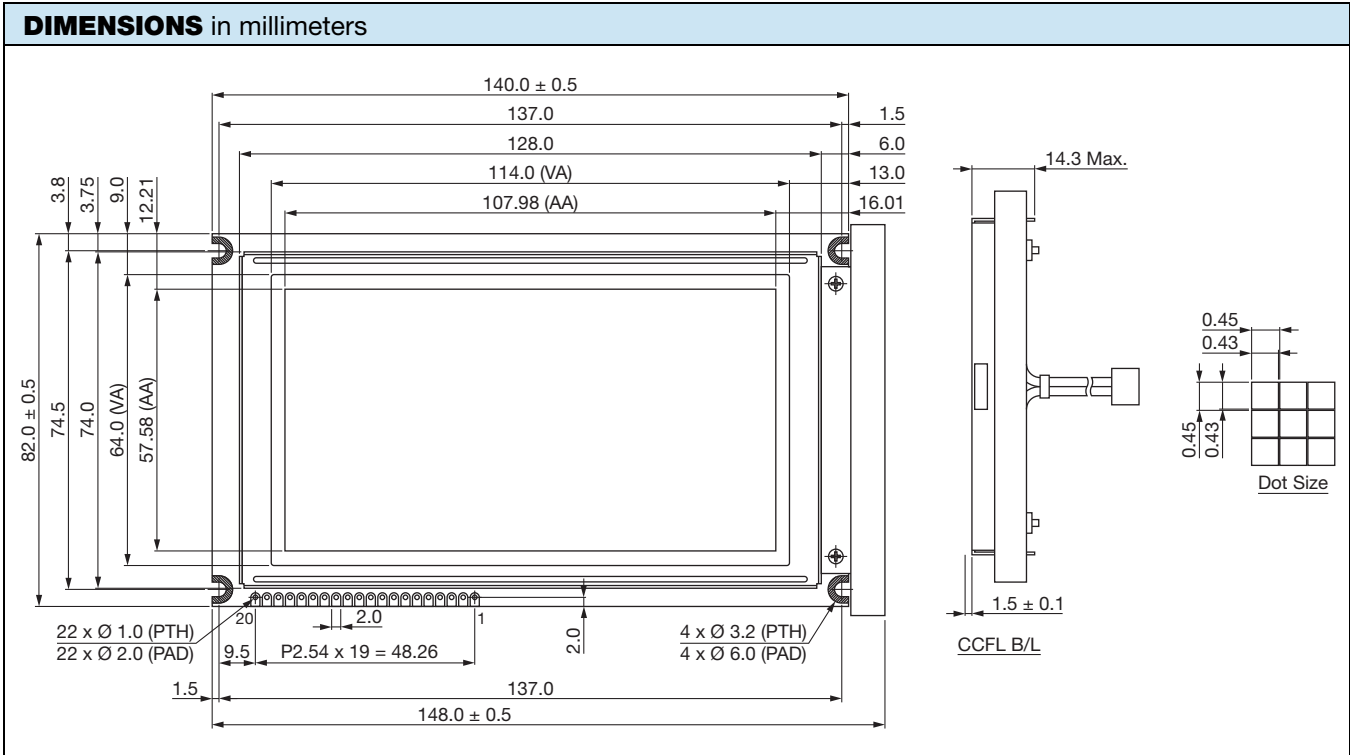
- $V_{SS} = 0$ V, $V_{DD} = 5.0$ V

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	0	45	50	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	-	-	-	V
		0 °C	20.3	21.4	22.5	
		25 °C	18.0	19.2	20.2	
		50 °C	17.8	18.9	20.0	
LED Forward Voltage	V_F	25 °C	-	4.2	-	V
LED Forward Current	I_F	25 °C	-	920	1800	mA
CCFL	V_F	25 °C	-	250	590	
CCFL	I_F	25 °C	-	-	5.5	
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	V _{SS}	Ground
2	V _{DD}	Power supply for logic
3	V ₀	Operating voltage LCD driving
4	C/D	Command/data read/write
5	RD	8080 family: read signal; 6800 family: enable signal
6	WR	8080 family: write signal; 6800 family: read/write 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	CS	Chip select
16	RES	Reset signal
17	V _{EE}	Negative voltage output
18	Busy	RA8820 busy
19	INT	Programable interrupt for 8802
20	A	Power supply for B/L





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