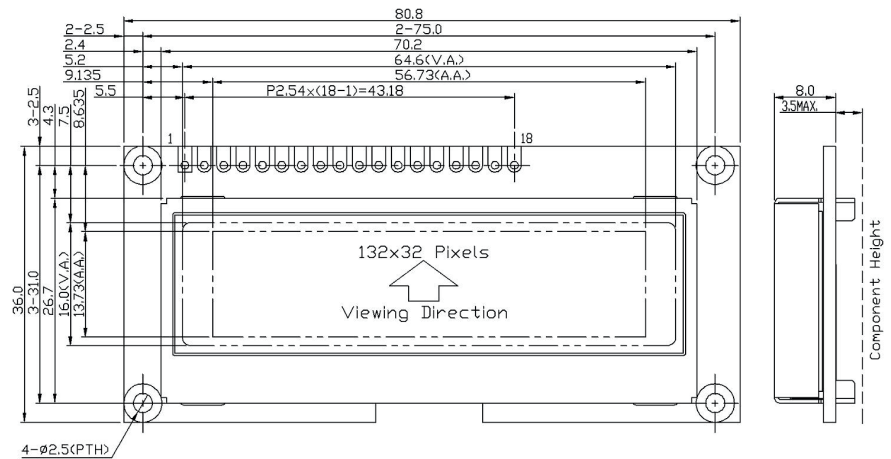


OUTLINE DRAWING



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FEATURES

- 132x32 dots
- COG type, cost effective, low power consumption
- Mechanical size compatible with LMB162A Series character module
- 3.3v power supply, parallel interface
- Ultra high contrast, STN-blue, White LED backlight

TERMINAL FUNCTIONS

Pin	Name	Descriptions
1	VSS	Negative power supply, 0v
2	VDD	Positive Power Supply
3	NC	No Connection (Keep open)
4	A0	Register Select A0=H, Transferring the Display Data A0=L, Transferring the Control Data
5	R/W	Read write control R/W=H; Data or status read R/W=L; Data or command write
6	E	Enable trigger
7	DB0	Bi-directional data bus
:	:	
14	DB7	
15	BLA	Positive power for LED backlight
16	/CS1	Chip Select /CS1=L, enable access to the LCD module /CS=H, disable access to the LCD module
17	P/S	Interface selection P/S=L; serial mode P/S=H; 8 bit parallel bus mode
18	/RES	Reset signal /RES= L, Reset the LCD module /RES= H, Normal running

Data Input/Output Voltage

MECHANICAL DATA

Item	Value
Outline (mm)	80.8 x 36.0 x 11.5 MAX.
Viewing Area (mm)	64.6 x 16.0
Active Area (mm)	56.73 x 13.73
Dot Pitch (mm)	0.43 x 0.43
Dot Size (mm)	0.4 x 0.4

DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode	STN, Negative, Transmissive
Viewing Angle	6:00
Driving Duty	1/33 duty
Backlight	White LED backlight

ELECTRICAL CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	VDD	2.9	3.3	3.4
Input High Voltage (V)	VIH	0.8xVDD	-	VDD
Input Low Voltage (V)	VIL	0	-	0.2xVDD
Operating Current (mA)	IDD	-	0.15	0.6

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	VfBLA	-	3.3	-
Forward Current (mA)	IfBLA	-	52	85

LM13232A Major Product list

Major Models	Highlight	
	LCD Mode	Voltage
LM13232AFW★	STN-Blue	3.3V

For similar product or (semi) custom made LCD module, Please visit our web site or contact us.

★ The above information is based on this model.

TEMPERATURE CHARACTERISTICS

Item	Symbol	Min	Max
Operating Temperature (C)	TOP	-20	+70
Storage Temperature (C)	TST	-30	+80