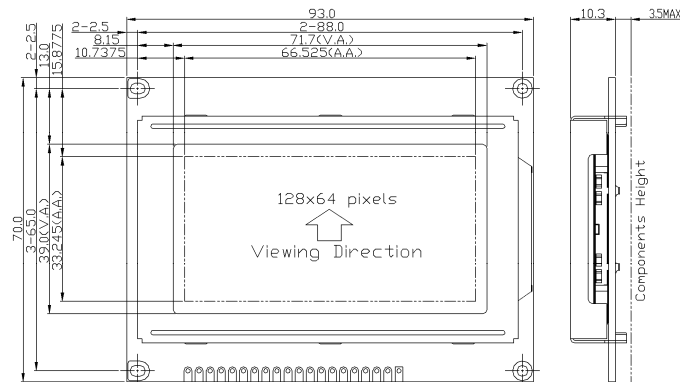


OUTLINE DRAWING



FEATURES

- 128x64 dots, Parallel interface
- DC/DC on board, 5v power supply
- Kinds of LCD model by STN-Gray, STN-YG, STN-blue, FSTN-Positive with YG or White LED backlight optional

MECHANICAL DATA

Item	Value
Outline (mm)	93.0 x 70.0 x 13.8MAX
Viewing Area (mm)	71.7 x 39.0
Active Area (mm)	66.525 x 33.245
Dot Pitch (mm)	0.52 x 0.52
Dot Size (mm)	0.485 x 0.485

DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode	STN-Gray, Positive, Transflective
Viewing Angle	6:00
Driving Method	1/64 duty, 1/9 bias
Backlight	White LED Backlight

TERMINAL FUNCTIONS

Pin	Name	Descriptions
1	VSS	Negative power supply, 0V
2	VDD	Positive Power Supply
3	V0	LCD Contrast Reference Supply
4	RS	Register Select RS=HIGH: Transferring Display Data RS=LOW: Transferring Instruction Data
5	R/W	R/W=H, E=L; Data or status read from the LCD module
6	E	R/W=L, E=H→L Data or Instruction latch into the LCD module
7	DB0	8-bit Data Bus; For display data or instruction data
:	:	
14	DB7	
15	CS1	Chip Selection, CS1=1, enable access to the left side (64 column) of the LCD Module
16	CS2	Chip Selection, CS2=1, enable access to the right side (64 column) of the LCD Module
17	/RST	Reset Signal: /RST = L, Reset the LCD Module /RST = H, Normal running
18	VOOUT	Power Booster Output for V0
19	BLA	Positive Power Supply for LED Backlight
20	BLK	Negative Power Supply for LED Backlight

ELECTRICAL CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	V _{DD}	4.8	5.0	5.2
Input High Voltage (V)	V _{IH}	3.5	-	V _{DD}
Input Low Voltage (V)	V _{IL}	0	-	0.4
Operating Current (mA)	I _{DD}	-	6.5	15.0

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V _{fBLA}	-	4.9	-
Forward Current (mA)	I _{fBLA}	-	80	100

MAJOR PRODUCT LIST

Models	Highlight	
	LCD Mode	Backlight
LM12864LDW★	STN-Gray	White LED
LM12864LBY	STN-YG	YG LED
LM12864LFW	STN-Blue	White LED

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

★The above product information is based on this model.

TEMPERATURE CHARACTERISTICS

Item	Symbol	Min	Max
Operating Temperature (°C)	T _{OP}	-20	+70
Storage Temperature (°C)	T _{ST}	-30	+80