

# VMC2004H

DIP shape for screw less assembly

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## Features

- ⇒ 20 characters x 4 lines
- ⇒ Two line pin connections for direct soldering or plug on PCB
- ⇒ Characters: 5x7 dots with cursor + icons
- ⇒ Controller SSD1803
- ⇒ Parallel or serial mode
- ⇒ 3.3V supply voltage



FSTN positive, white back light

## Mechanical Data

Module Dimension	75 x 45.0 mm
Viewing Area	61 x 38 mm
Dot Size	0.45 x 0.78mm
Character Size	2.84 x 8 mm

## Pin Assignment

Pin	Symbol	Function
1	Vss	GND
2	Vdd	Supply voltage logic
3	Vci	Contrast adjustment
4	/RES	Reset
5	RS	Command / data
6	R/W	H: Read, L:Write
7	E	Chip enable
8 - 13	NC	Not used
14	Vss	GND
15 - 22	D0 - D7	Data bus
23	A	+ for back light
24	K	GND for back light

## Electronic Characteristics

Supply Voltage	Vdd	3.3V
Supply Current	Idd	2.5 mA
LCD Driving	Vci	2.95 V
LED Forward Voltage (white)	Vf	3.2 V
LED Forward Current (white)	If	50 mA

