

AVNET EMBEDDED SPECIFICATION.

Datasheet
Varitronix
MDLS 16166

Specification of LCD Module type

MDLS -16166

1. General Description

- 16 Characters (5 x 8 Pixels) X 1 Line
- Integral Controller/Driver type equivalent to HD44780/KS0066 (application note available on request)
- STN, FSTN** Positive and Negative mode**
- Optional LED Backlight (note including Backlight will increase height of module (see drawing))
- Variety of Backlight colours Green, White**, Blue**, Red**, Amber **
- Temperature Ranges 0 to 50°C, -20 to 70°C**, -30 to 80°C**
- View angle 6 o'clock other options on special request**

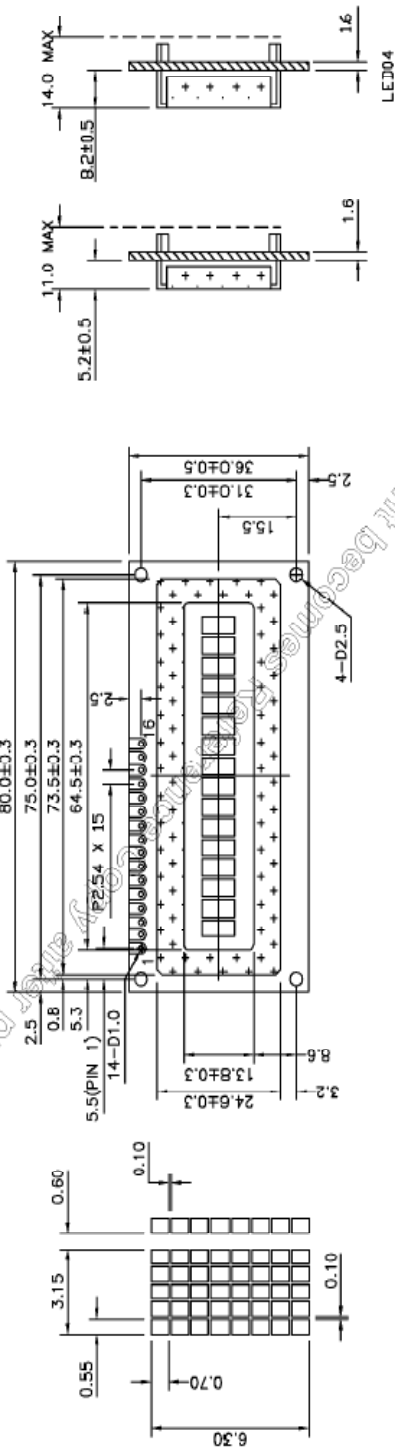
** Items marked are non standard options, and may carry factory MOQ. Please check with your local sales office for availability of the options.

2. Mechanical Specifications

Table 1

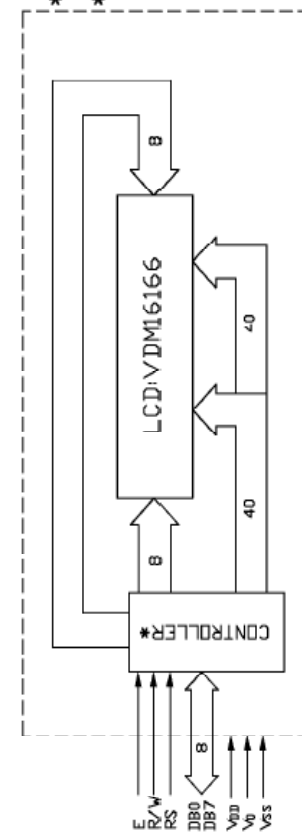
Parameter	Specifications	Unit
Outline Dimensions	80.0 (W) x 36.0 (H) x 15.0 (D) max NOTE Depth (D) is lower without Backlight	mm
View Area VA	64.5 (W) x 13.8 (H)	mm
Format	16 Characters x 1 Line	
Character Size	3.15 (W) x 6.30 (H) 5 x 8 Pixels	mm
Character Spacing	0.60 (W)	mm
Character Pitch	3.75 (W)	mm
Pixel Size	0.55 (W) x 0.70 (H)	mm
Pixel Spacing	0.10 (W) x 0.10 (H)	mm
Pixel Pitch	0.65 (W) x 0.80 (H)	mm

ISSUE	AMENDMENT	DATE
△	CHANGE IC	01.04.20



16 PIN CONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	YSS	VDD	V0	RS	R/W	E	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7	LED(+)	LED(-)

△ NT3881 OR EQUIVALENT
 * ELECTRICALLY CONFIGURED AS 8 CHARACTERS X 2 LINES



TITLE: SPECIFICATION OF MODULE
PROJECT NO: MDL(S) - 16166D
 TOLERANCE UNLESS OTHERWISE SPECIFIED:
 X.X ±0.3
 X.XX ±0.1
 DIMENSIONS IN MM
 MATERIAL: _____ FINISH: _____
 SCALE: DO NOT ON SCALE THICKNESS: _____
 THIRD ANGLE PROJECTION
 DRAWN: CHAN KAM FAI SIGN: _____ DATE: 01.04.20
 CHECKED: CHAN KAM FAI
 APPROVED: K.P. HO
ITEM NO. MDLS16166D-XX
DESCRIPTION: MDLS16166D-XX
FILE NO: MODULE MDL(S)-16166D-XX REV 1

VB VARITRONIX LIMITED

3. Interface Signals

Table 2

Pin No	Symbol	Description
1	Vss	Ground
2	Vdd	Power Supply for Logic (+5v)
3	Vo	Power Supply for LCD (Contrast)
4	R/S	Register Select Input 'High' for Data Register (for Read and Write) 'Low' for Instruction Register (for Write) Busy Flag, address counter (for Read)
5	R/W	Read/Write Signal 'High' for Read mode 'Low' for Write mode
6	E	Enable Start signal for Read/Write
7	DB0	Data input/output LSB
8	DB1	Data input/output
9	DB2	Data input/output
10	DB3	Data input/output
11	DB4	Data input/output
12	DB5	Data input/output
13	DB6	Data input/output
14	DB7	Data input/output MSB
15(A)	A	Anode of LED B/L
16(K)	K	Cathode of LED B/L

Typical ordering code MDLS 16166 LV LED04

This is standard Temperature Range, LV single 5v supply, STN Green Mode Display, Yellow Green LED Array style Backlight.

Full part number and full specification will be confirmed dependant on the option selected i.e.

Display type, LED Type and Colour, Temperature Range etc

END

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