

AVNET EMBEDDED SPECIFICATION.

Datasheet
Varitronix
MDLS 20433

Specification of LCD Module type

MDLS – 20433

1. General Description

- 20 Characters (5 x 8 Pixels) X 4 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**

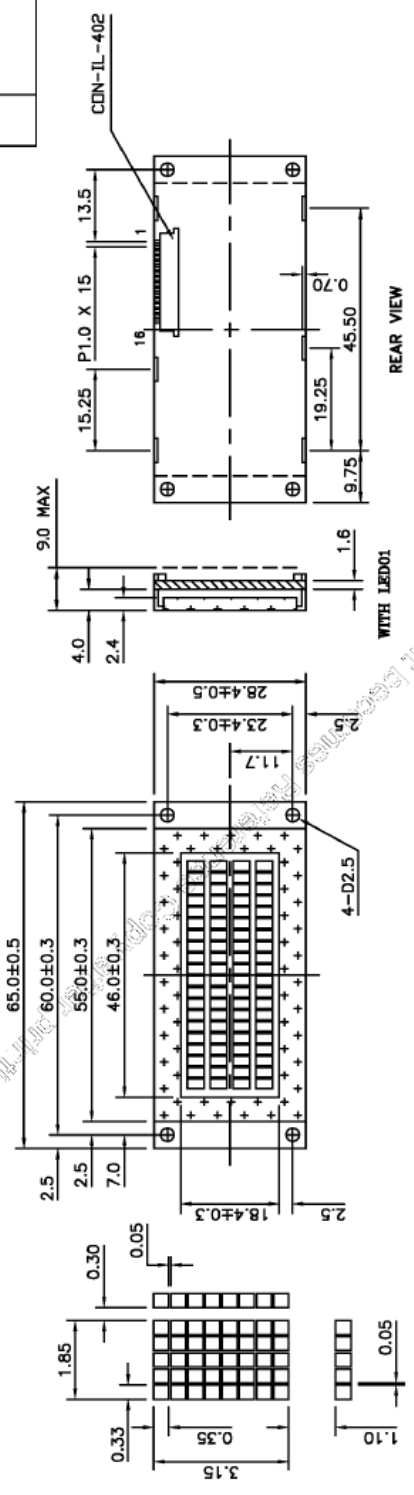
** Items marked are non standard options, and may carry factory MOQ. Please check with your local sales office for availability of the options.

2. Mechanical Specifications

Table 1

Parameter	Specifications	Unit
Outline Dimensions	65.0 (W) x 28.4 (H) x 8.0 (D) max NOTE Depth (D) is lower without Backlight	mm
View Area VA	46.0 (W) x 18.4 (H)	mm
Format	20 Characters x 4 Line	
Character Size	1.85 (W) x 3.15 (H) 5 x 8 Pixels	mm
Character Spacing	0.30 (W) x 1.10 (H)	mm
Character Pitch	2.15 (W) x 4.25 (H)	mm
Pixel Size	0.33 (W) x 0.35 (H)	mm
Pixel Spacing	0.05 (W) x 0.05 (H)	mm
Pixel Pitch	0.38 (W) x 0.40 (H)	mm

ISSUE	AMENDMENT	DATE

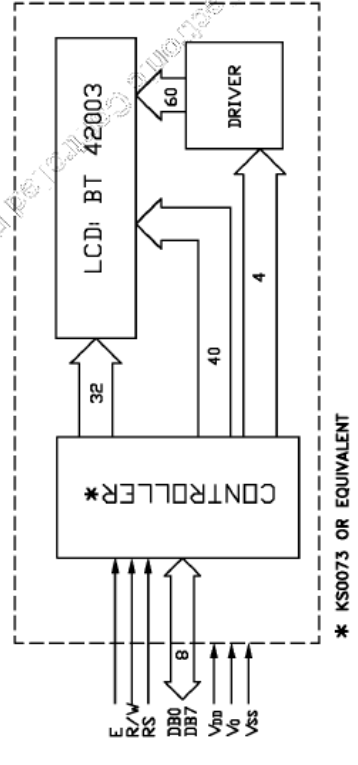


16 PIN CONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	VSS	VDD	V0	RS	R/W	E	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7	LED(+)	LED(-)

TITLE: SPECIFICATION OF MODULE
 PROJECT NO: MDLS20433-27
 TOLERANCE UNLESS OTHERWISE SPECIFIED: X.X ±0.3
 MATERIAL: X.XX ±0.1
 DIMENSIONS IN MM
 FINISH:
 SCALE: DO NOT ON SCALE
 THICKNESS:
 THIRD ANGLE PROJECTION

DRAWN	CHECKED	APPROVED	NAME	SIGN	DATE
			LUO XIAN GANG		02.05.14
			LU MIN YUAN		
			CHARM		

 ITEM NO. MDLS20433-27
 DESCRIPTION: HELD 20433-IF-14-LED06 WITH CONNECTOR-IE-KS0073
 FILE NO: MDLS20433-27 RO.DWG REV 0
 SHEET 1 OF 1



- NOTES:
 * SPECIAL CHARACTERISTIC
 + SAFETY CHARACTERISTIC
 < REFERENCE ONLY
 Δ CRITICAL DIMENSION

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 20433 LV LED04

This is STN Display (S), Transflective, Green Mode , Yellow Green LED Array style Backlight , Temperature Range LV single 5v supply, 6 o'clock View.

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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