

AVNET EMBEDDED SPECIFICATION.

Datasheet
Varitronix
MGLS12032A

Specification of LCD Module type

MGLS – 12032A

1. General Description

- Small Form Factor Full Graphics 120 x 32 pixels

- Optional Integral Controller/Driver type T6963C not available on all resolutions(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**

- 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.

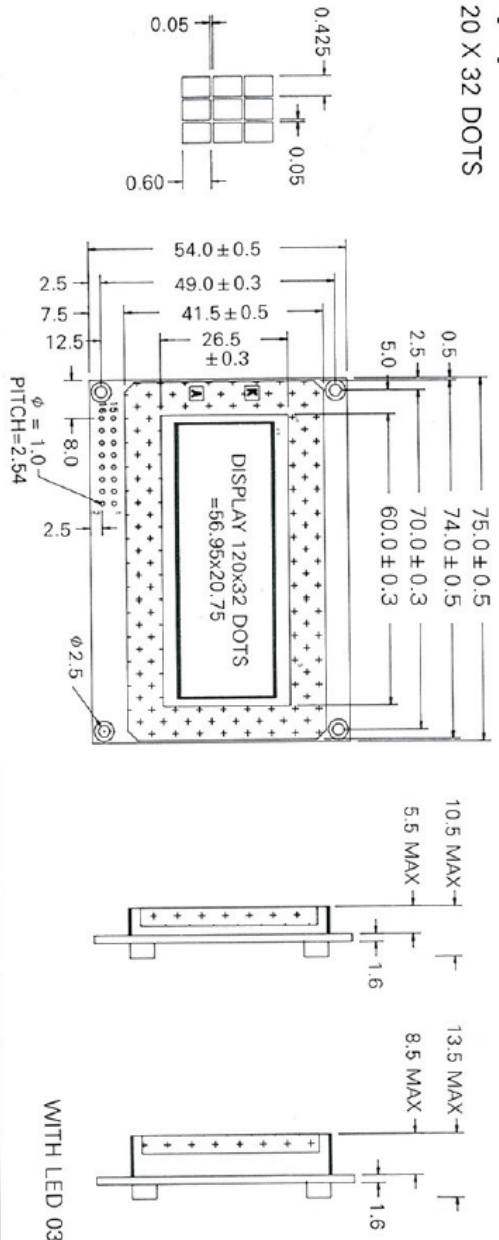
2. Mechanical Specifications

Table 1

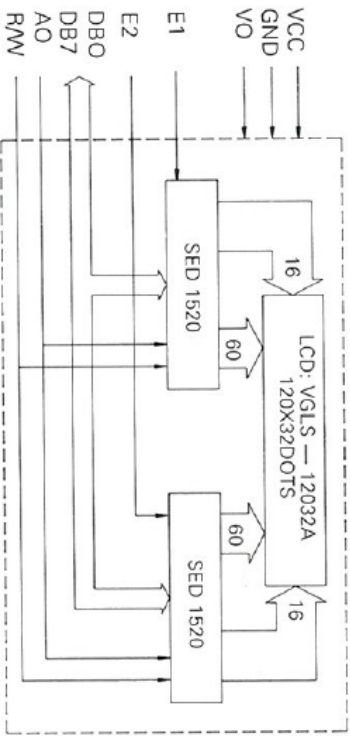
Parameter	Specifications	Unit
Outline Dimensions	75.0 (W) x 54.0 (H) x 13.5 (D) max NOTE Depth (D) is lower without Backlight	mm
View Area VA	60.0 (W) x 26.5 (H)	mm
Format	120 (W) x 32 (H) Pixels	
Pixel Size	0.425 (W) x 0.60 (H)	mm
Pixel Spacing	0.05 (W) x 0.05 (H)	mm
Pixel Pitch	0.475 (W) x 0.65 (H)	mm
Active Area	56.95 (W) x 20.75 (H)	mm

MGL(S)-12032A

120 X 32 DOTS



16 PIN CONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	GND	VCC	VO	A0	R/W	E1	E2	NC	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7



3. Interface Signals

Table 2

Pin No.	Symbol	Description
1	VSS	Ground(0V).
2	VDD	Power supply for logic (+5V).
3	V0	Power supply for LCD driver.
4	A0	Data/Command Select Input: 'High': Display data on DB0-DB7. 'Low' : Display control data on DB0-DB7.
5	R/W	Chip interface with 68 family MPU: Read/Write control signal input pin. R/W = "High" : Read control signals. R/W = "Low" : Write control signals.
6	E1	For first LCD driver SED1520: Chip interfaced with 68 family MPU: Input. Active high. Enable clock signal input for the 68 family MPU.
7	E2	For second LCD driver SED1520: Chip interfaced with 68 family MPU: Input. Active high. Enable clock signal input for the 68 family MPU.
8	NC	No Connection.
9	DB0	Data input/output (LSB).
10	DB1	Data input/output.
11	DB2	Data input/output.
12	DB3	Data input/output.
13	DB4	Data input/output.
14	DB5	Data input/output.
15	DB6	Data input/output.
16	DB7	Data input/output (MSB).
17	LED+	Anode of LED backlight.
18	LED-	Cathode of LED backlight.

Typical ordering code MGLS 12032A LV LED03

This is STN Display (S), Transflective, Green Mode , Yellow Green LED Edge style Backlight , Standard Temperature Range (LV), 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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