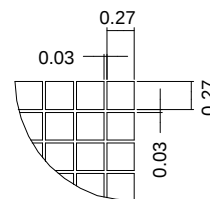
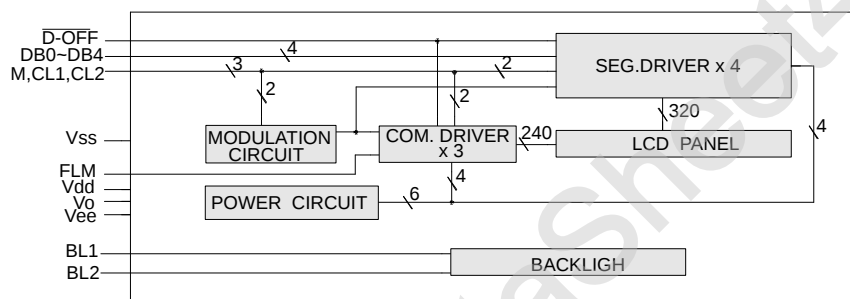
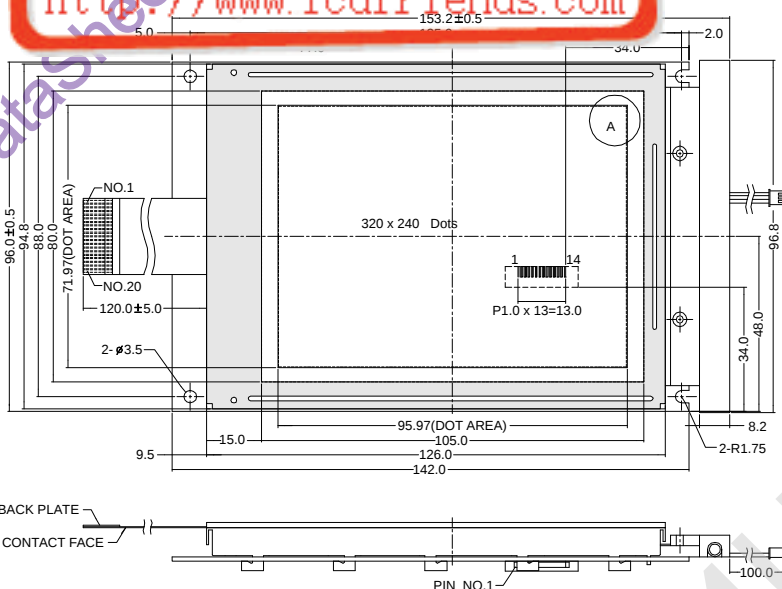


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OUTLINE



The tolerance unless classified $\pm 0.3\text{mm}$

MECHANICAL SPECIFICATION

Overall Size	153.2 x 96.0	Module	H2 / H1
View Area	105.0 x 80.0	W / O B/L	- / -
Dot Size	0.27 x 0.27	EL B/L	- / -
Dot Pitch	0.30 x 0.30	LED / CCFL B/L	10.5 / 20.3

PIN ASSIGNMENT

Pin no.	Symbol	Function
1	FLM	Shift direction select
2	M	Synchronous signal input
3	CL1	Display data input clock
4	CL2	Display data input clock
5	D-OFF	Column output control
6	DB0	Data bus line
7	DB1	Data bus line
8	DB2	Data bus line
9	DB3	Data bus line
10	Vdd	Power supply(+)
11	Vss	Power supply(GND)
12	Vee	Negative voltage input
13	Vo	Contrast Adjust
14	FG	Frame ground

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min.	Max.	Units
Supply for logic voltage	Vdd-Vss	25°C	-0.3	+7.0	V
LCD driving supply voltage	Vdd-Vee	25°C	0	+35.0	V
Input Voltage	Vin	25°C	-0.3	Vdd-0.3	V

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Typical	Max.	Units
Power Supply Voltage	Vdd-Vss	25°C	4.5	-	5.5	V
LCD operation voltage	Vop	Top	N	W	N	W
		-20°C	-	26.9	-	28.4
		0°C	25.5	-	27	-
		25°C	23.5	24.4	25	25.9
		50°C	21	-	22.5	-
		70°C	-	22	23.5	-
LCM current consumption (No B/L)	Idd	Vdd=5V	-	4	7	mA
Backlight current consumption	LED/edge	VB/L=4.2V	-	180	-	mA
	LED/white	VB/L=3.5V	-	120	-	mA

REMARK

LCD option: STN, TN, FSTN

Backlight Option: LED, EL Backlight feature, other Specs not available on catalog is under request.