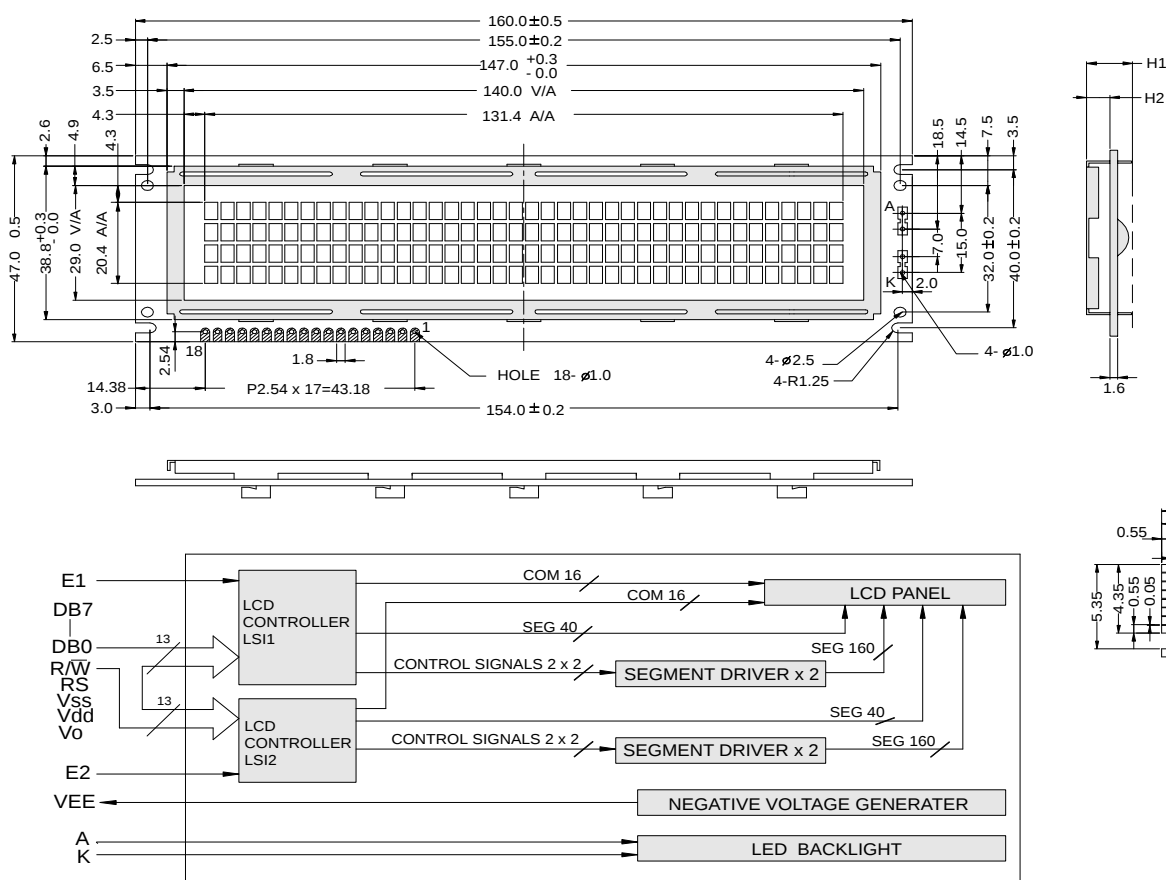




OUTLINE DIMENSION & BLOCK DIAGRAM



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

MECHANICAL SPECIFICATION			
Overall Size	160.0 x 47.0	Module	H2 / H1
View Area	140.0 x 29.0	W / O B/L	4.8 / 9.5
Dot Size	0.5 x 0.5	EL B/L	- / -
Dot Pitch	0.55 x 0.55	LED B/L	- / -

PIN ASSIGNMENT		
Pin no.	Symbol	Function
1	Vss	Power supply(GND)
2	Vdd	Power supply(+)
3	Vo	Contrast Adjust
4	RS	Register select signal
5	R/W	Data read / write
6	E1	Enable 1
7	E2	Enable 2
8	DB0	Data bus line
9	DB1	Data bus line
10	DB2	Data bus line
11	DB3	Data bus line
12	DB4	Data bus line
13	DB5	Data bus line
14	DB6	Data bus line
15	DB7	Data bus line
16	A	Power supply for LED B/L (+)
17	K	Power supply for LED B/L (—)
18	NC/Vee	NC/Negative voltage

ABSOLUTE MAXIMUM RATING										
Item	Symbol	Condition	Min.		Max.		Units			
Supply for logic voltage	Vdd-Vss	25°C	-0.3		7		V			
LCD driving supply voltage	Vdd-Vee	25°C	-0.3		13		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	2.7		—		5.5		V	
LCD operation voltage	Vop	Top	N	W	N	W	N	W	V	
		-20°C	—	7.1	—	7.5	—	7.9	V	
		0°C	4.8	—	4.8	—	4.9	—	V	
		25°C	4.5	6.1	4.6	6.4	4.7	6.7	V	
		50°C	4.4	—	4.5	—	4.6	—	V	
		70°C	—	5.7	—	6	—	6.3	V	
LCM current consumption (No B/L)	Idd	Vdd=5V	—		4		7		mA	
Backlight current consumption	LED/edge	VB/L=4.2V	—		—		—		mA	
	LED/array	VB/L=4.2V	—		—		—		mA	

REMARK

LCD option: STN, TN, FSTN

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

