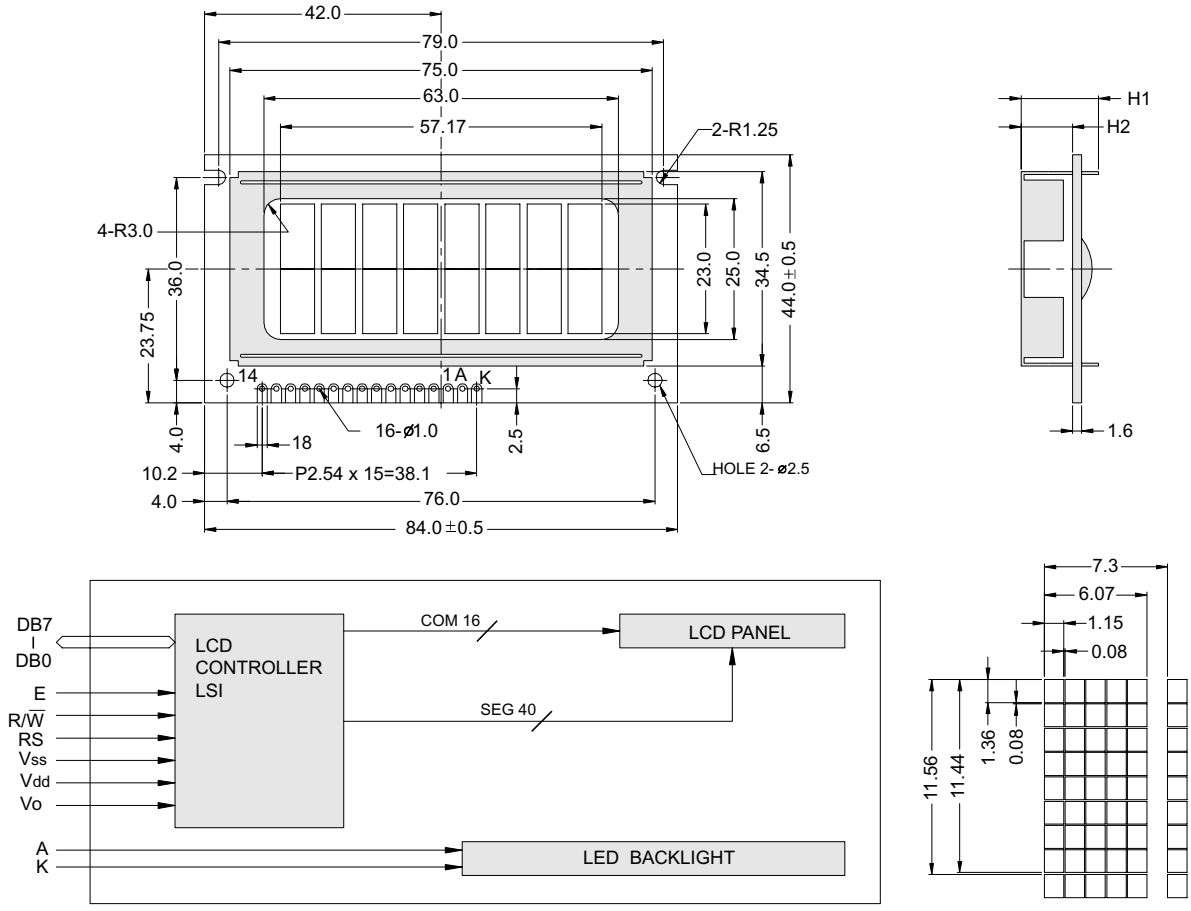




**OUTLINE DIMENSION & BLOCK DIAGRAM**



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

MECHANICAL SPECIFICATION			
Overall Size	84.0 x 44.0	Module	H2 / H1
View Area	63.0 x 25.0	W / O B/L	- / -
Dot Size	1.15 x 1.36	EL B/L	- / -
Dot Pitch	1.23 x 1.44	LED B/L	9.1 / 13.7

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	E	Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	A	Power supply for LED B/L (+)
16	K	Power supply for LED B/L (-)

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	V	
		-20°C	- 4.3	- 4.6	- 5.9	V		
		0°C	4.5	- 4.8	- 5.1	V		
		25°C	4.1	4.4	4.5	4.7	5	V
		50°C	3.8	- 4.1	- 4.4	V		
		70°C	- 3.9	- 4.2	- 4.5	V		
LCM current consumption (No B/L)	Idd	Vdd=5V	-	1.5	2.5	mA		
Backlight current consumption	LED/edge	VB/L=4.2V	-	-	-	mA		
	LED/array	VB/L=4.2V	-	200	-	mA		

**REMARK**

LCD option: STN, TN, FSTN  
 Backlight Option: LED Backlight feature, other Specs not available on catalog is under request

