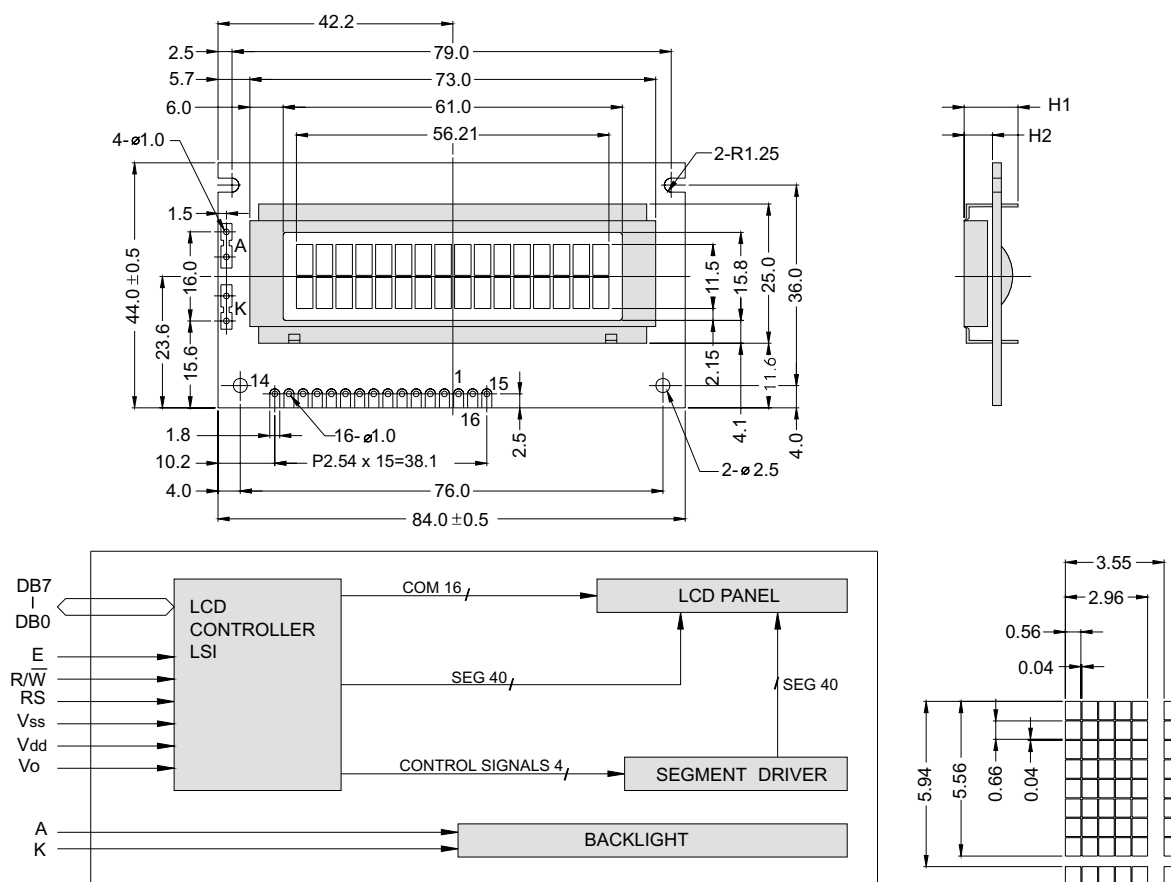




## OUTLINE DIMENSION & BLOCK DIAGRAM



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

MECHANICAL SPECIFICATION			
Overall Size	84.0 x 44.0	Module	H2 / H1
View Area	61.0 x 15.8	W /O B/L	5.1 / 9.2
Dot Size	0.56 x 0.66	EL B/L	5.1 / 9.2
Dot Pitch	0.60 x 0.70	Arrav LED B/L-Edge LED B/L	9.4 / 14.0 - 8.6 / 11.6

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	N	W	V
		-20°C	—	7.1	—	7.5	—	7.9	V
		0°C	4.5	—	5.1	—	5.3	—	V
		25°C	4.1	6.1	4.7	6.4	4.9	6.7	V
		50°C	3.8	—	4.4	—	4.6	—	V
		70°C	—	5.7	—	6	—	6.3	V
LCM current consumption (No B/L)	Idd	Vdd=5V	—		2		3		mA
Backlight current consumption	LED/edge	VB/L=4.2V	—		40		—		mA
	LED/array	VB/L=4.2V	—		120		—		mA

### REMARK

LCD option: STN, TN, FSTN

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



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