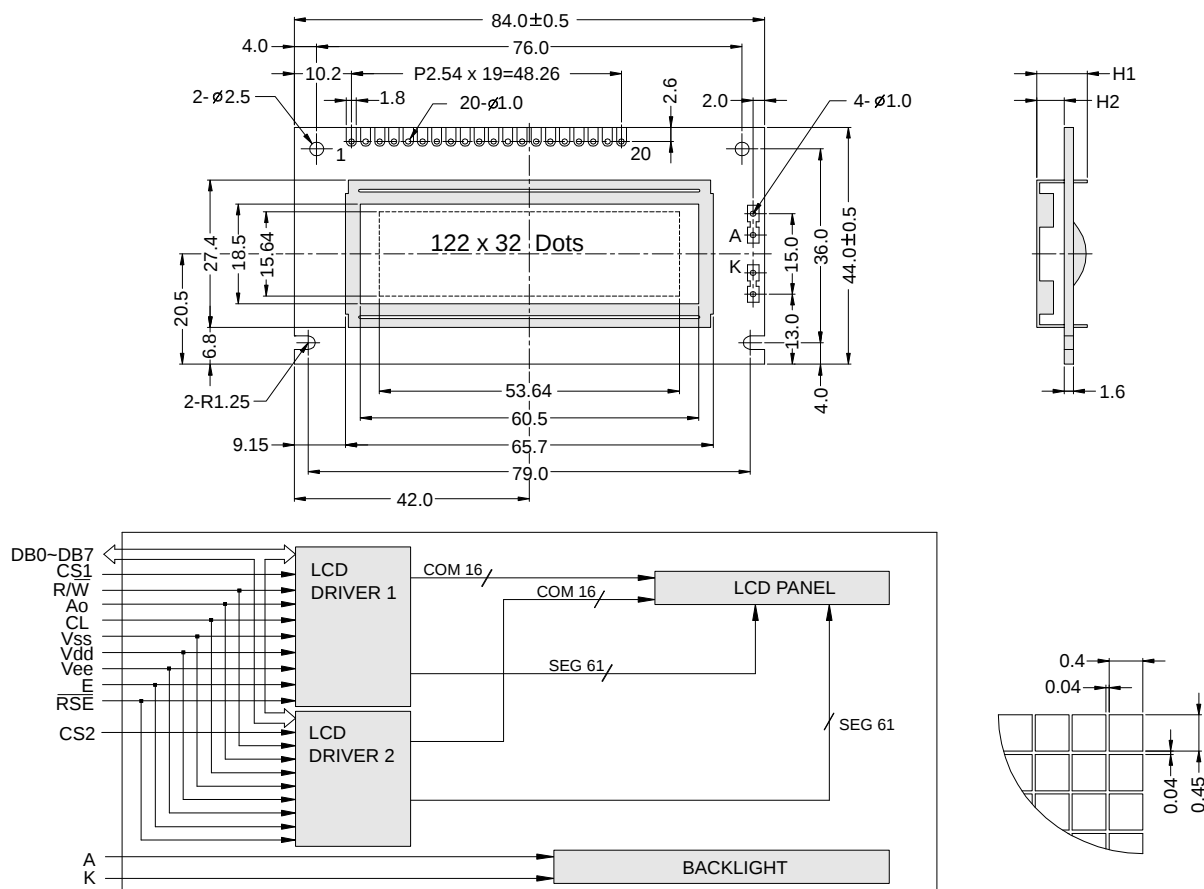




OUTLINE DIMENSION & BLOCK DIAGRAM



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

MECHANICAL SPECIFICATION			
Overall Size	84.0 x 44.0	Module	H2 / H1
View Area	60.5 x 18.5	W / O B/L	4.9 / 9.0
Dot Size	0.40 x 0.45	EL B/L	4.9 / 9.0
Dot Pitch	0.44 x 0.49	LED B/L	8.9 / 13.0

PIN ASSIGNMENT		
Pin no.	Symbol	Function
1	Vss	Power supply(GND)
2	Vdd	Power supply(+)
3	Vo	Contrast Adjust
4	A0	Command / data input
5	CS1	Chip select driver 1
6	CS2	Chip select driver 2
7	CL	External clock input
8	E	Enable signal
9	R/W	Data read / write
10-17	DB0-DB7	Data bus line
18	RES	Reset
19	A	Power supply for LED B/L (+)
20	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	8.0	V
LCD driving supply voltage	Vdd-Vee	25°C	-0.3	16.5	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	—	8.6	— 9.1 V
		0°C	6.1	—	6.4 — 6.7 V
		25°C	5.6	7.7	5.9 8.1 6.2 8.5 V
		40°C	5.1	—	5.4 — 5.7 V
		70°C	—	7.2	— 7.6 — 8 V
LCM current consumption (No B/L)	Idd	Vdd=5V	—	1.0	2.5 mA
Backlight current consumption	LED/edge	VB/L=4.2V	—	—	— 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.

