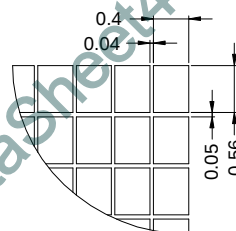
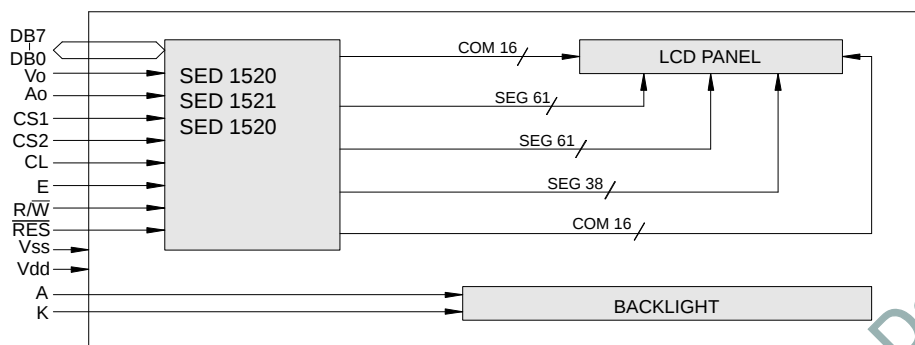
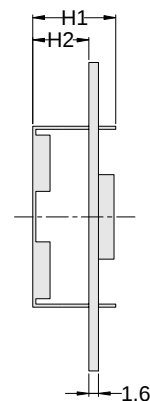
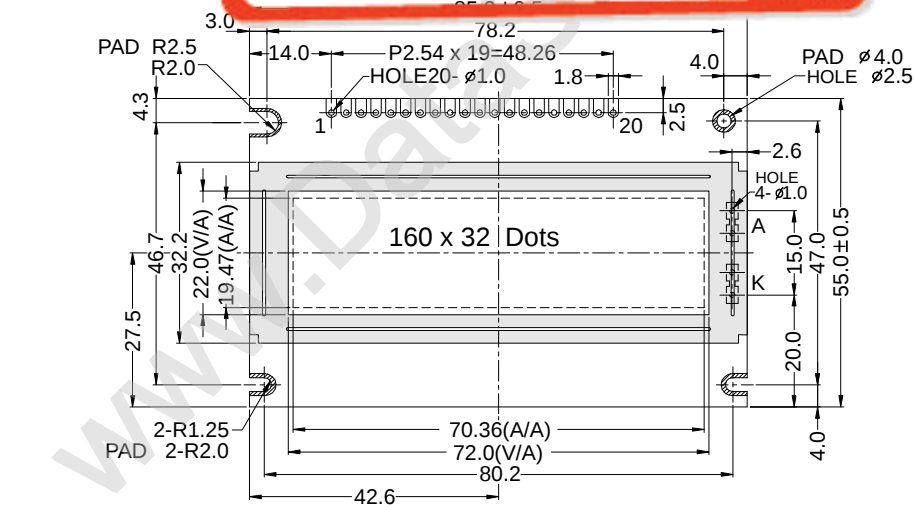


OUTLINE DIMENSION



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

MECHANICAL SPECIFICATION			
Overall Size	85.2 x 55.0	Module	H2 / H1
View Area	72.0 x 22.0	W / O B/L	9.6 / 14.5
Dot Size	0.40 x 0.56	EL B/L	- / -
Dot Pitch	0.44 x 0.61	LED B/L	9.6 / 14.5

PIN ASSIGNMENT		
Pin no.	Symbol	Function
1	Vss	Power supply(GND)
2	Vdd	Power supply(+)
3	Vo	Contrast adjust
4	Ao	Command / Data select
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	N	W	V
		-20°C	—	6.1	—	6.4	—	6.7	V
		0°C	—	—	—	—	—	—	V
		25°C	—	6.0	—	6.3	—	6.6	V
		50°C	—	—	—	—	—	—	V
		70°C	—	5.8	—	6.1	—	6.4	V
LCM current consumption (No B/L)	Idd	Vdd=5V	—		1		2.5		mA
Backlight current consumption	LED/edge	VB/L=4.2V	—		—		—		mA
	LED/array	VB/L=4.2V	—		180		—		mA

REMARK

LCD option: STN, TN, FSTN

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

