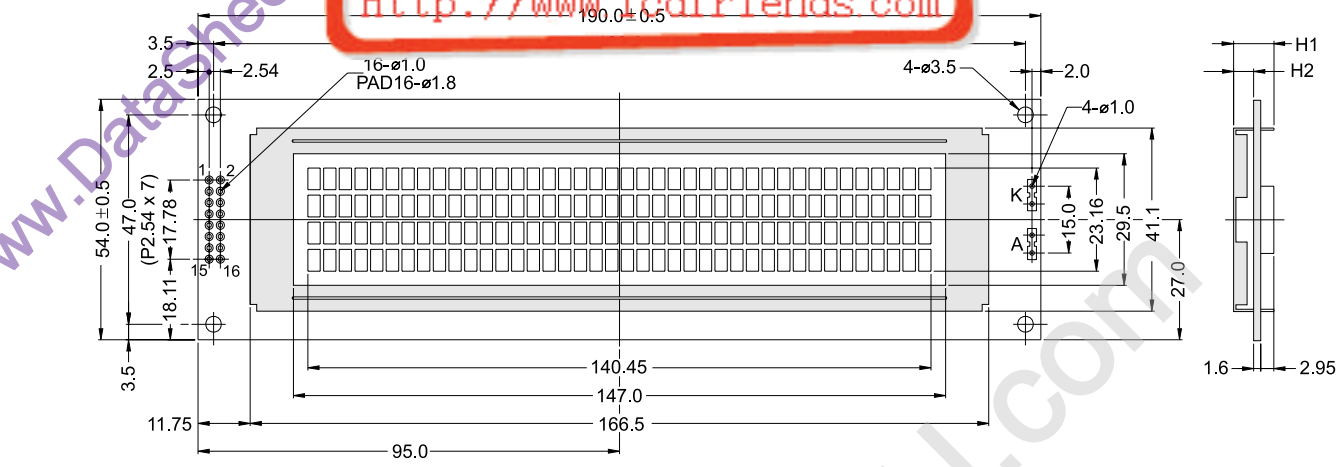
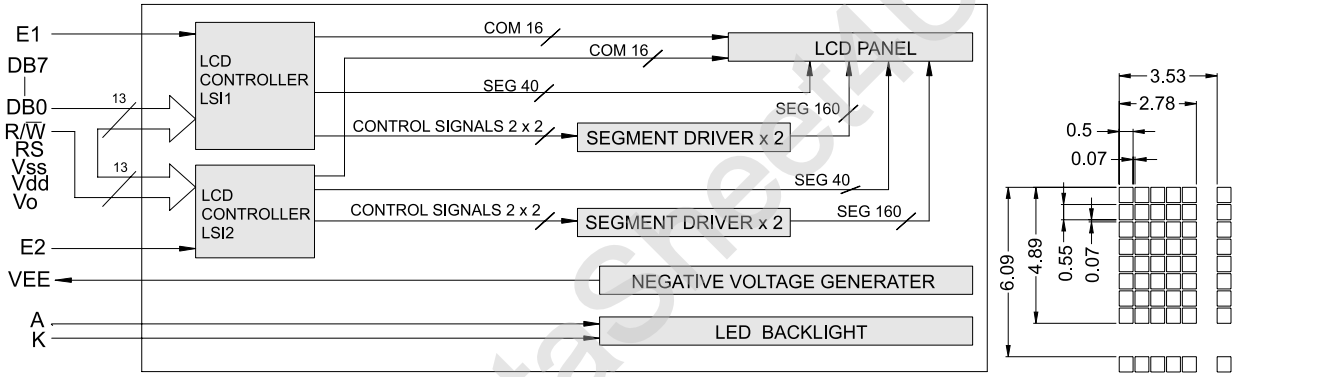
RC 4004-A

OKAYA

OUTLINE DIMENSION & BLOCK DIAGRAM





The tolerance unless classified ± 0.3mm

MECHANICAL SPECIFICATION			
Overall Size	190.0 x 54.0	Module	H2 / H1
View Area	147.0 x 29.50	W /O B/L	4.5 / 9.1
Dot Size	0.50 x 0.55	EL B/L	4.5 / 9.1
Dot Pitch	0.57 x 0.62	LED B/L	9.0 / 13.6

PIN ASSIGNMENT		
Pin no.	Symbol	Function
1	DB7	Data bus line
2	DB6	Data bus line
3	DB5	Data bus line
4	DB4	Data bus line
5	DB3	Data bus line
6	DB2	Data bus line
7	DB1	Data bus line
8	DB0	Data bus line
9	E1	Enable 1
10	R/W	Data read / write
11	RS	Register select signal
12	Vo	Contrast Adjust
13	Vss	Power supply(GND)
14	Vdd	Power supply(+)
15	E2	Enable 2
16	Vee	Negative voltage
17	A	Power supply for LED B/L (+)
18	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	4.8	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	–		220		–		mA