RG 16032-A

OKAYA

OUTLINE DIMENSION & BLOCK DIAGRAM

160 x 32 Dots
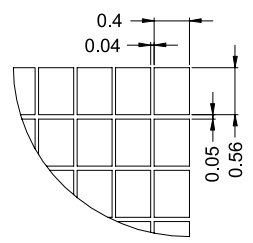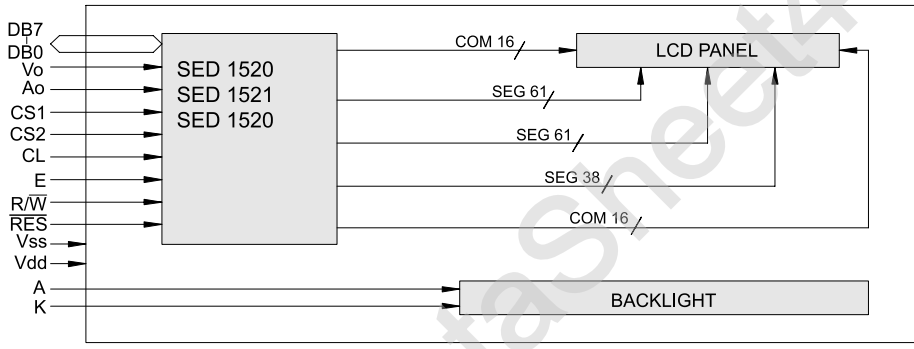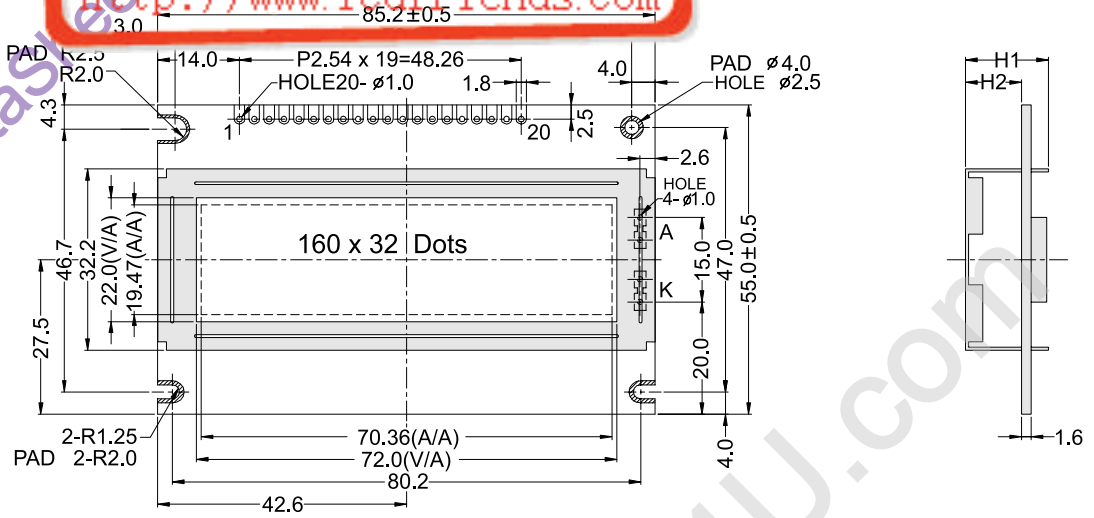
The tolerance unless classified ± 0.3mm

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 singnal
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
		Top	N	W	N	W	N	W	V
		-20°C	–	6.1	–	6.4	–	6.7	V
		0°C	–	–	–	–	–	–	V
LCD operation voltage	Vop	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

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