

## ORDERING INFORMATION

1 2 3 - 4 5 - 6 7 8 - 9

1	Module type	<b>EL</b> = Elatec Character (Alpha/Numeric) & Graphic LCD Module	
2	Module format	1602 = 16x2 2004 = 20x4 4002 = 40x2	12232 = 122x32 12864 = 128x64 240128 = 240x128
3	Design version	A through ZZ for different PCB sizes, controller IC's, etc. (Combine with module format to arrive at base model number.)	
4	Polarizer type	<b>R</b> = Reflective <b>M</b> = Transmissive, Positive	<b>F</b> = Transflective <b>N</b> = Transmissive, Negative
5	Backlight type	<b>N</b> = None <b>L</b> = LED	<b>E</b> = EL <b>C</b> = CCFT
6	Fluid type	<b>T</b> = TN <b>B</b> = Blue mode STN <b>Y</b> = Yellow mode STN	<b>G</b> = Gray mode STN <b>F</b> = FSTN(Film-compensated STN[B/W])
7	Viewing direction	<b>B</b> = Bottom view (6 o'clock)	<b>T</b> = Top view (12 o'clock)
8	Temperature range and power supply	<b>W</b> = Standard temp range w/single supply voltage (operating: -10 to 60°C and storage -20 to 70°C) <b>H</b> = Wide temp range w/dual supply voltage (operating: -20 to 70°C and storage: -30 to 80°C)	
9	Character pattern	<b>R</b> = English/Russian <b>nil</b> (no character) = English/Japanese	

**EXAMPLE:** EL 1602A – F L – Y B W (- R)  
1 2 + 3 4 5 6 7 8 9

1	= EL
2+3	= Base model number
4	= Transflective
5	= LED
6	= Yellow mode STN
7	= Bottom view
8	= Standard temp range w/single supply voltage
9	= English/Russian

### Character module

NUMBER OF CHARACTERS	MODULE PIN	PREFERRED	MODULE SIZE	VIEWING AREA (LxW)	CHARACTERS SIZE(LxW)	DOT SIZE (LxW)
<b>8x1</b>	EL0801A		84x44x13.5	61x15.8	6.45x10.75	1.3x1.25
	EL0801B		53x24.2x9.8	35x12.6	4.2x7.1	0.8x0.6
	EL0801C		69x27x8	45.2x13.8	5.2x7.71	0.97x0.85
<b>8x2</b>	EL0802A	Preferred	40x35.4x8.3	30.4x13.9	2.95x5.56	0.55x.055
	EL0802B		58x32x9.5/13.5	38x16	2.96x5.56	0.56x0.66
<b>12x1</b>	EL1201A		59x54.8x11.4	44.86x5.93	5.93x3.28	0.6x0.68
<b>16x1</b>	EL1601A		80x36x9.5/13.5	64x13.8	3.07x6.56	0.55x0.75
	EL1601B		122x35x9.5	94x13	4.84x9.22	0.92x1.06
	EL1601C		80x36x9.5/13.5	64.5x14	3.07x6.56	0.55x0.75
	EL1601D		122x33x9.5	99x13	4.84x9.66	0.92x1.1
	EL1601E		75x31x9.5	64x13.8	6.56x3.07	0.6x0.75
<b>16x2</b>	EL1602A	Preferred	80x36x9.5/13.5	64x13.8	4.35x2.95	0.55x0.5
	EL1602B	Preferred	84x44x9.5/13.5	64.5x16.4	2.95x4.35	0.56x0.61
	EL1602C		66.7x23.3x4.3	61.7x15.6	2.95x5.55	0.55x0.65
	EL1602D		53x20x11.5	36x10	4.25x1.85	0.33x0.35
	EL1602E		85x36x9.5/13.5	63x16.4	3.0x5.23	0.56x0.61
	EL1602G		80x25.8x9.5	55.73x10.98	3x5.23	0.56x0.61
	EL1602H		65.5x36.7x9.5	49.95x14.4	2.55x4.99	
	EL1602K		80x36x9.5/13.5	64.5x16.4	3.0x5.23	0.56x0.61
	EL1602L		80x31x13.5	71x13.8	2.95x4.35	0.5x0.55
	EL1602M		101x43x14	76x13.5	3.16x7.25	0.6x0.74
	EL1602N		85x29.5x9.5/13.5	64.5x16.4	3.0x5.23	0.56x0.61
	EL1602P		85x29.5x13.5	64x13.8	2.95x4.35	0.55x0.5
	EL1602Q		83x29.5x9.5	64.5x16.4	2.96x5.55	0.56x0.65
	EL1602T		85x32.6x9.5/13.5	64.5x16.4	3.0x5.23	0.56x0.61
	EL1602S	Preferred	122x44x9.5/13.5	99x24	5.2x9.55	1.0x1.15
<b>16x4</b>	EL1604C	Preferred	87x60x9.5/13.5	61.8x25.2	2.95x4.75	0.55x0.55
	EL1604B		87x60x9.5/14	61.8x25.2	2.95x4.75	0.55x0.55
<b>20x2</b>	EL2002A		146x43x10/14.2	134x23	4.84x9.22	0.92x1.1
	EL2002B	Preferred	180x40x14.5	149x20.64	6x9.66	1.12x1.12
	EL2002D	Preferred	116x37x9.5/13.5	83x18.6	3.2x5.55	0.6x0.65
<b>20x4</b>	EL2004D	Preferred	98x60x9.5/13.5	78x25.2	2.95x4.75	0.55x0.55
	EL2004A		77x32.6x14.2	60x22	2.3x4.51	0.42x0.46
	EL2402B		116x37x13.5	83x18.6	2.7x5.55	0.5x0.65
<b>40x1</b>	EL4001A		182x33.5x11	152.5x16.5	3.2x8.2	0.6x0.7
<b>40x2</b>	EL4002A		182x33.5x11	152.5x16.5	3.2x8.2	0.6x0.7

### Complete marking preferred types

EL 0802A – RN – YBW  
 EL 0802A – FL – YBW  
 EL 1602A – FL – YBW  
 EL 1602B – FL – YBW  
 EL 1602S – FL – YBW

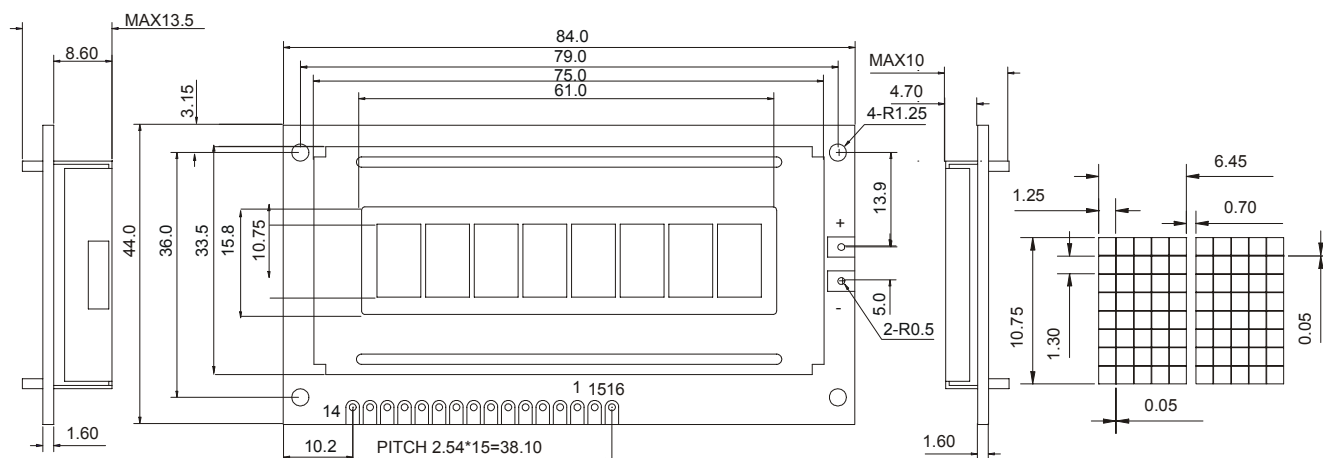
EL 1604C – FL – YBW  
 EL 2002D – FL – YBW  
 EL 2004A – FL – YBW  
 EL 2004D – FL – YBW

### Graphic module

NUMBER OF DOTS	MODULE PIN		MODULE SIZE	VIEWING AREA (LxW)	DOT SIZE (LxW)	DUTY CYCLES
<b>120x32</b>	EL12032A		98x50x13	76x25.2	0.55x0.66	1/32
<b>122x32</b>	EL12232A		84x44x10/115	64x17.9	0.4x0.45	1/32
	EL12232C		84x44x15	64x17.9	0.4x0.45	1/32
<b>128x64</b>	EL12864A	Prefered	93x70x15	72x40	0.48x0.48	1/64
	EL12864B		78x70x13	62x44	0.40x0.56	1/64
<b>160 x 32</b>	EL16032		122x32x9,5	92x22	0,49x0,49	1/64

Prefered types: EL12864A - FL - YBW

## EL0801A



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

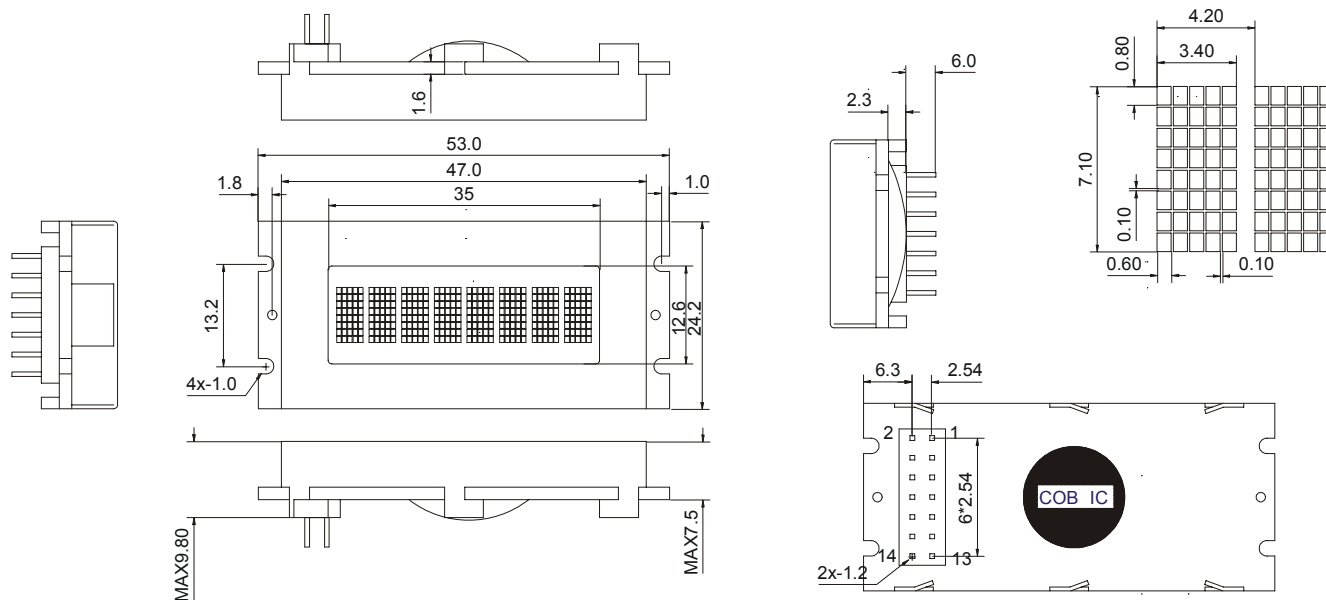
### PERFORMANCE

LC FLUID:  
POLARIZER:  
COLOR:  
BACKLIGHT:  
TEMPERATURE RANGE:  
Controller:

### FEATURES

TN, STN  
REFLECTIVE, TRANSELECTIVE,  
TRANSMISSIVE  
GRAY, YELLOW, BLUE  
LED(YELLOW - GREEN)  
STANDARD, WIDE  
KS0066 (OR EQUIVALENT)

## EL0801B



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0		
8	DB1		

### PERFORMANCE

LC FLUID:  
POLARIZER:  
BACKLIGHT:  
TEMPERATURE RANGE:  
Controller:

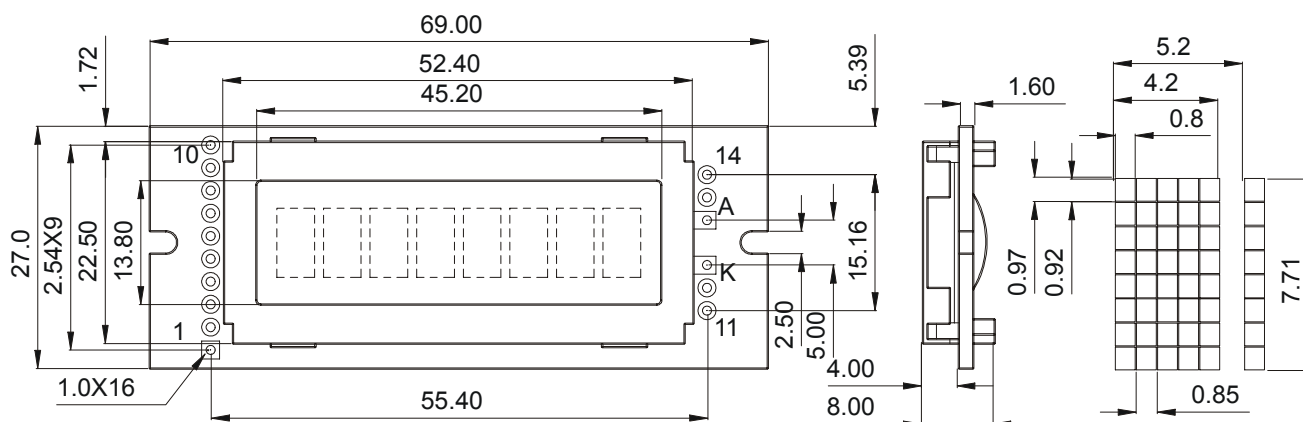
### FEATURES

TN  
REFLECTIVE  
NO  
STANDARD  
KS0066 (OR EQUIVALENT)

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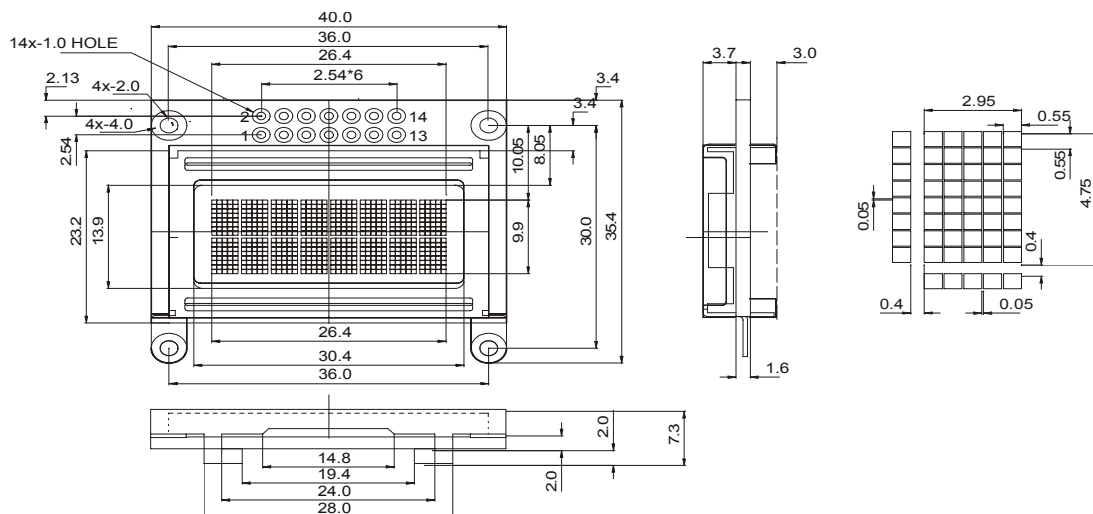
## EL0801C



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

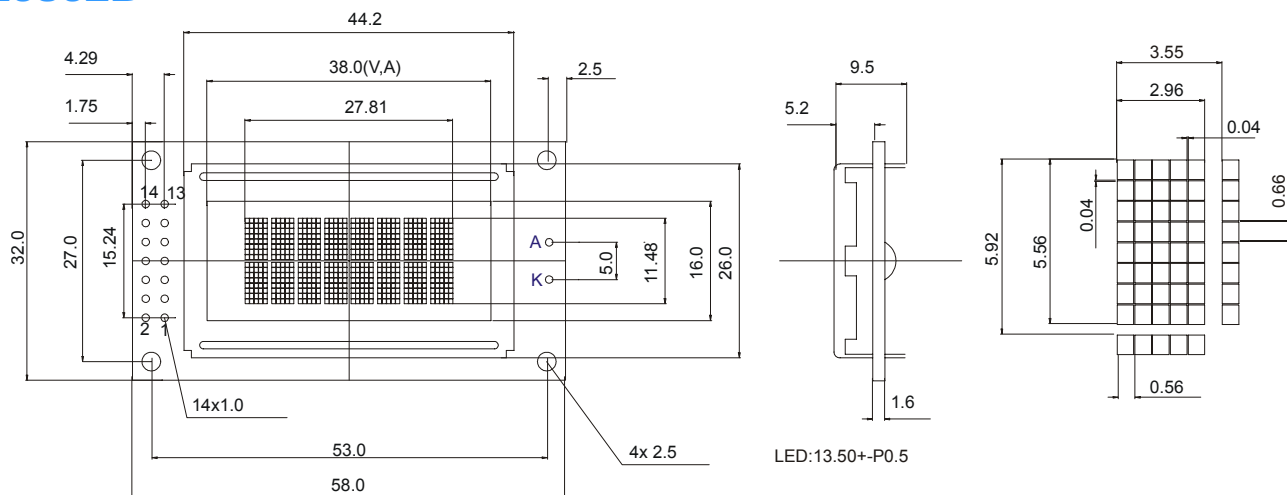
## EL0802A



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0		
8	DB1		

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE
COLOR:	GRAY, YELLOW
BACKLIGHT:	NO
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL0802B



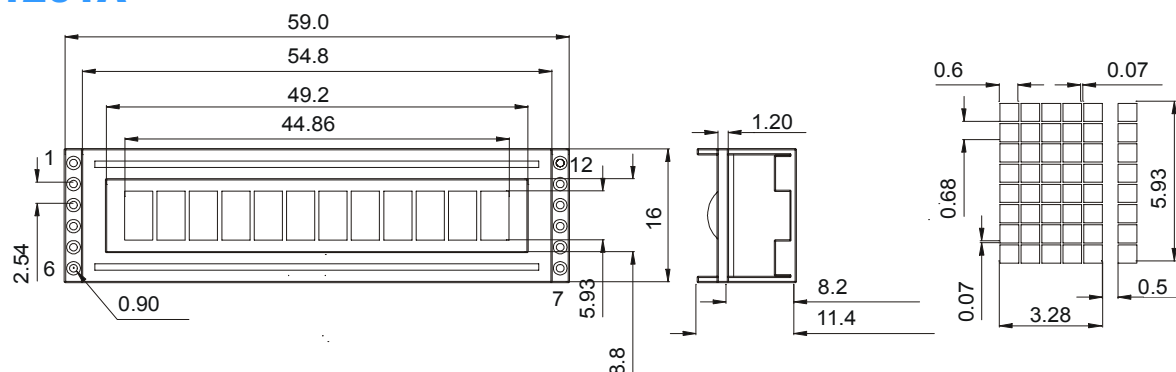
PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	A	LED+
8	DB1	K	LED-

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANFLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW
BACKLIGHT:	LED
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

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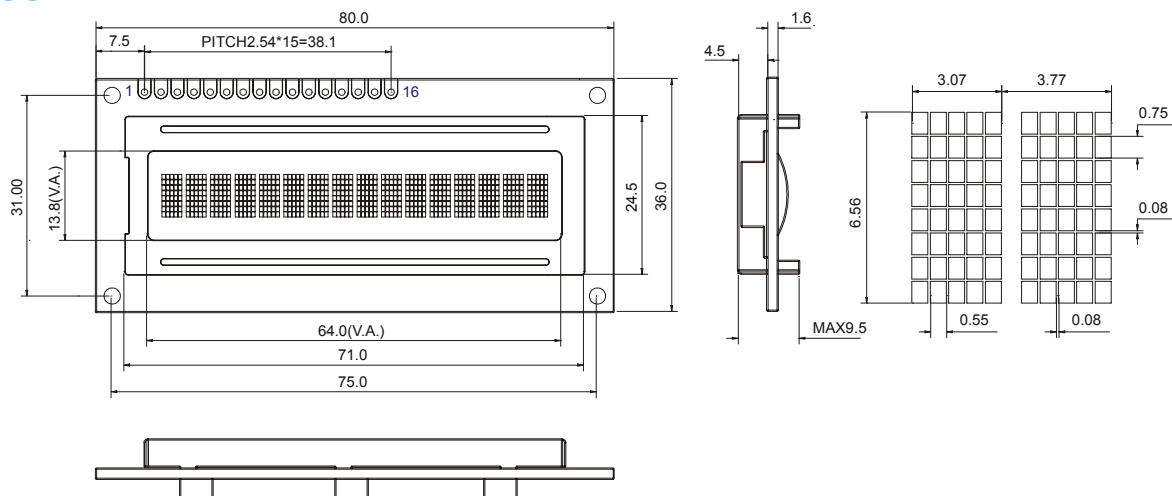
## EL1201A



PIN	SIGNAL	PIN	SIGNAL
1	VSS	7	DB4
2	VDD	8	DB5
3	V0	9	DB6
4	RS	10	DB7
5	R/W	11	LED+
6	E	12	LED-

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSFLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW-GREEN
BACKLIGHT:	LED
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

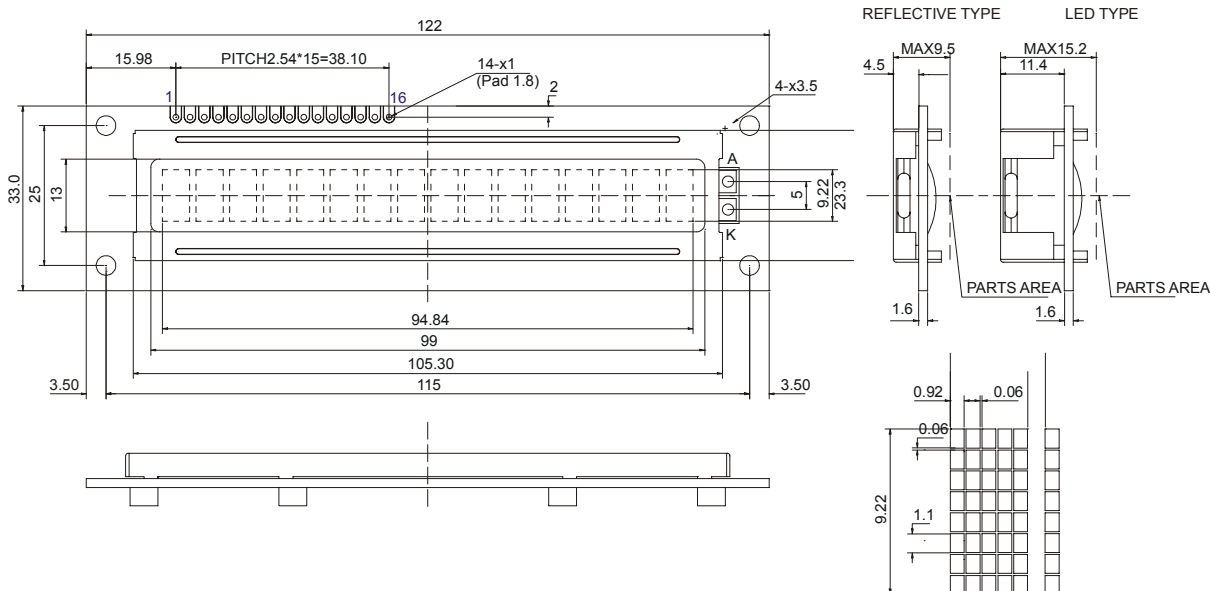
## EL1601A



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN
POLARIZER:	REFLECTIVE
COLOR:	GRAY
BACKLIGHT:	NO
TEMPERATURE RANGE:	STANDARD
Controller:	KS0066 (OR EQUIVALENT)

## EL1601B



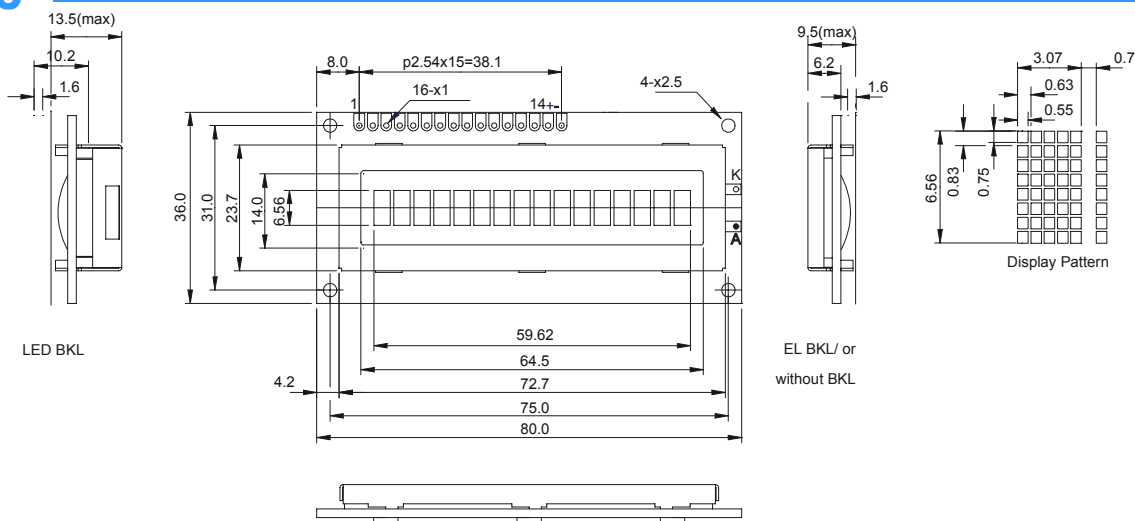
PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

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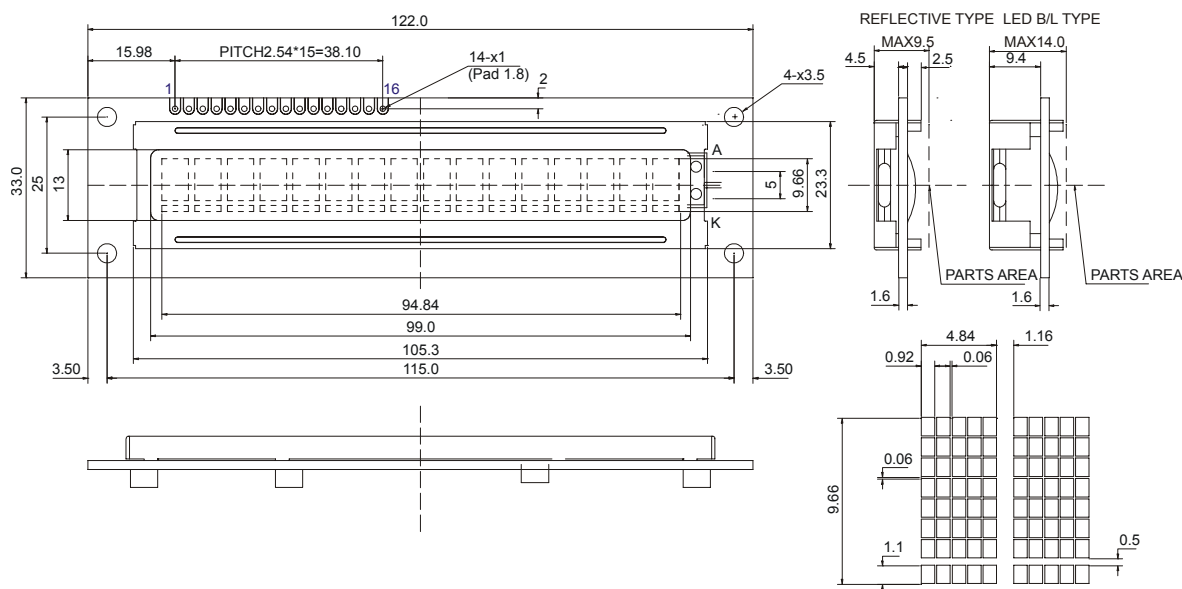
## EL1601C



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN
POLARIZER:	REFLECTIVE
COLOR:	GRAY
BACKLIGHT:	NO
TEMPERATURE RANGE:	STANDARD
Controller:	KS0066 (OR EQUIVALENT)

## EL1601D



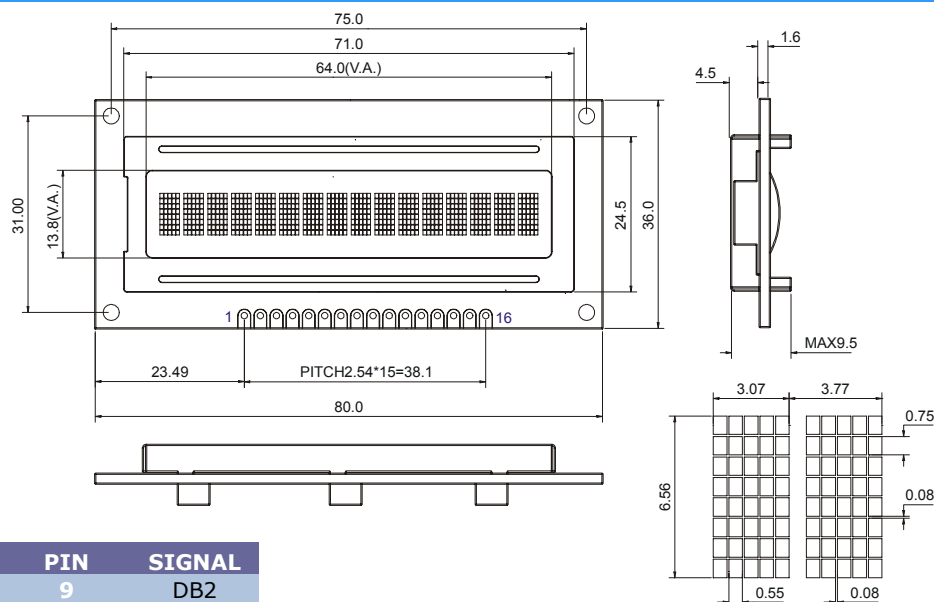
PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLUCTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

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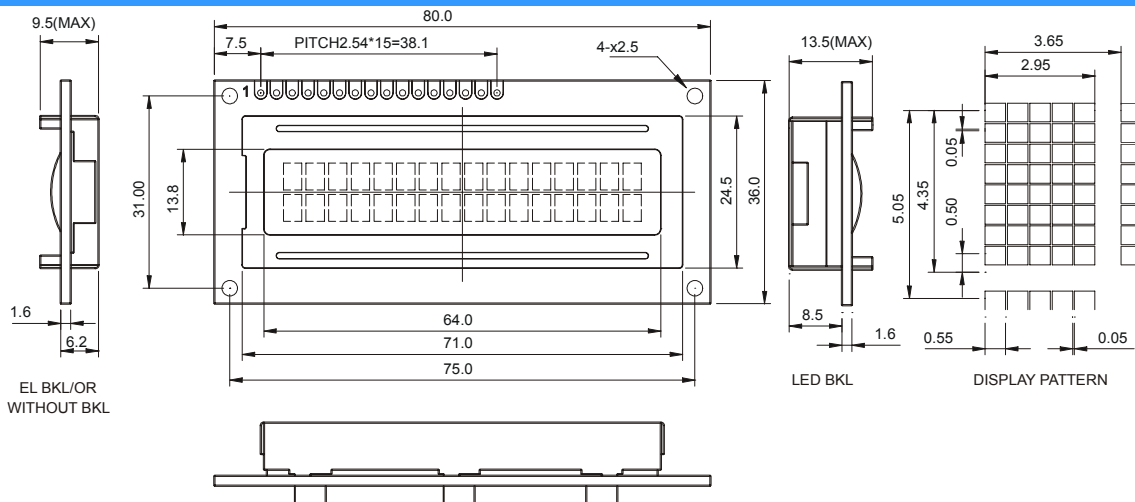
## EL1601E



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN
POLARIZER:	REFLECTIVE
COLOR:	GRAY
BACKLIGHT:	NO
TEMPERATURE RANGE:	STANDARD
Controller:	KS0066 (OR EQUIVALENT)

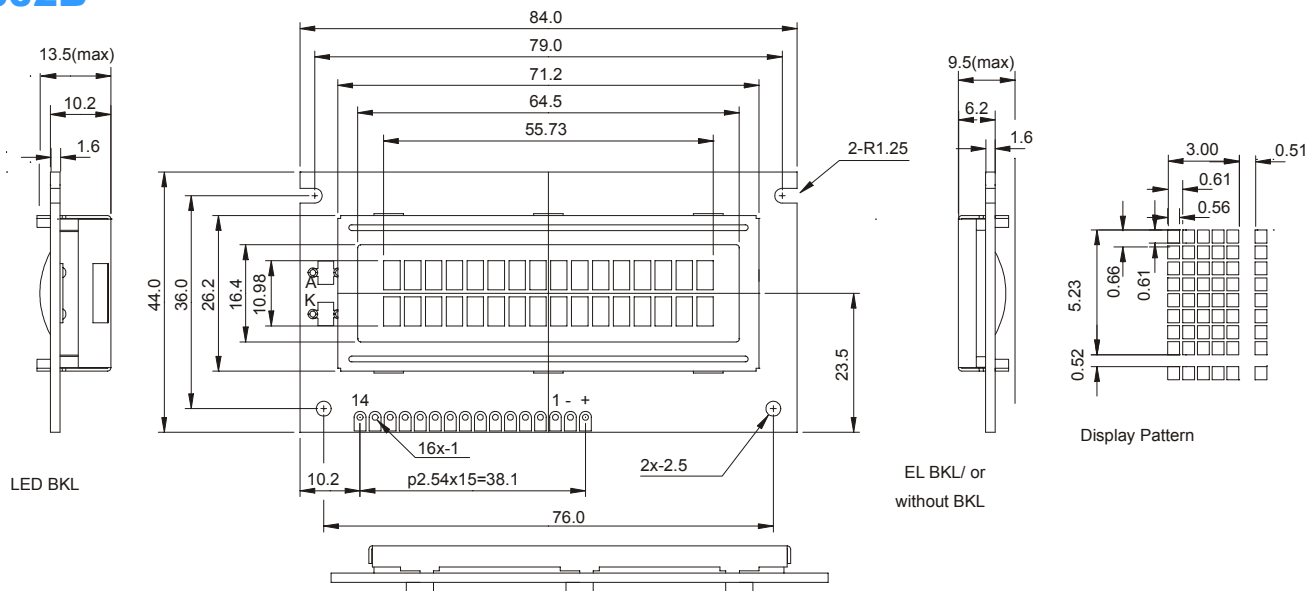
## EL1602A



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLUCTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL1602B



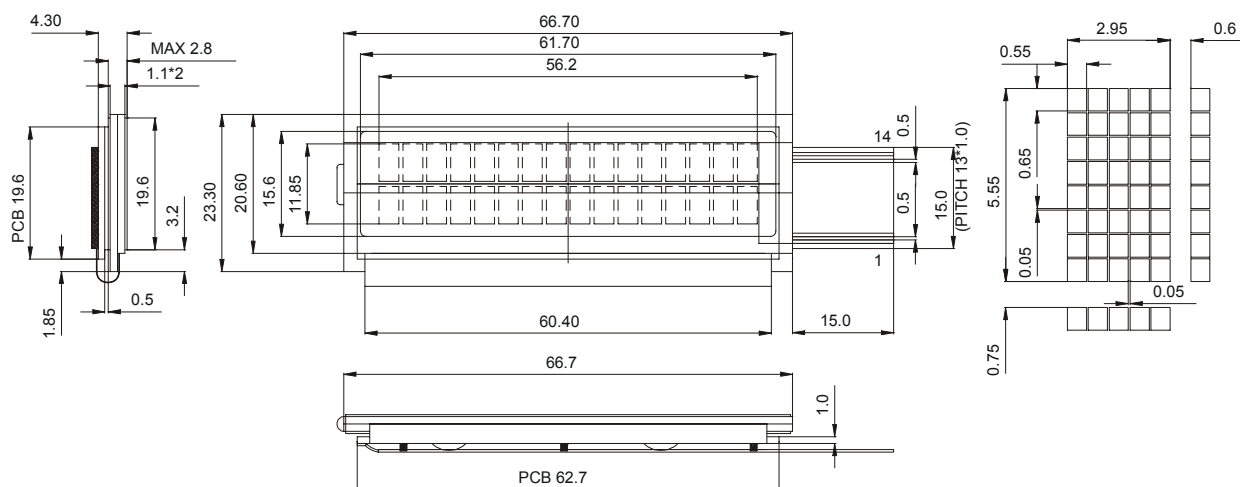
PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLUCTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

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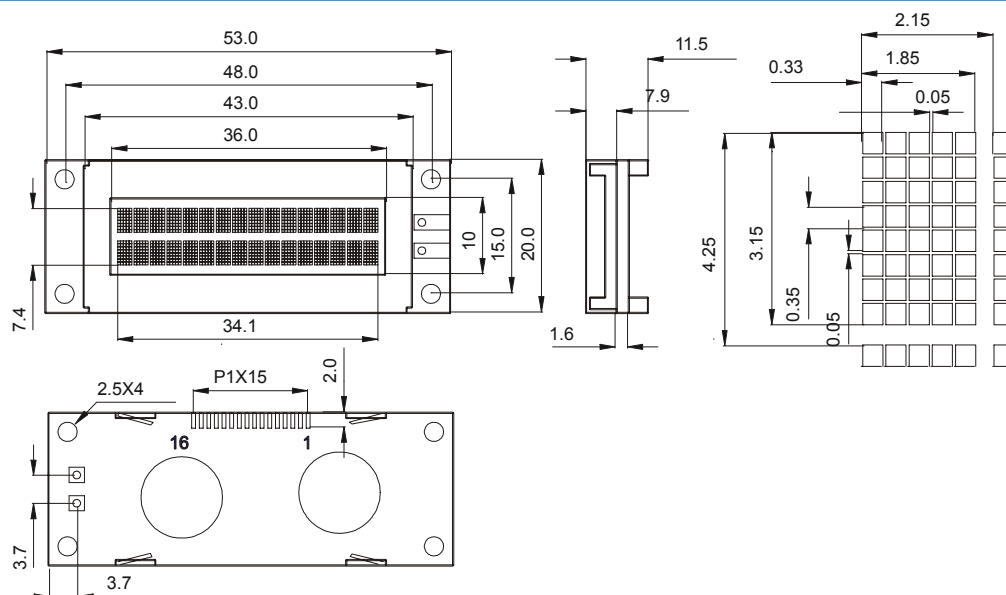
## EL1602C



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0		
8	DB1		

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE
COLOR:	GRAY
BACKLIGHT:	NO
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

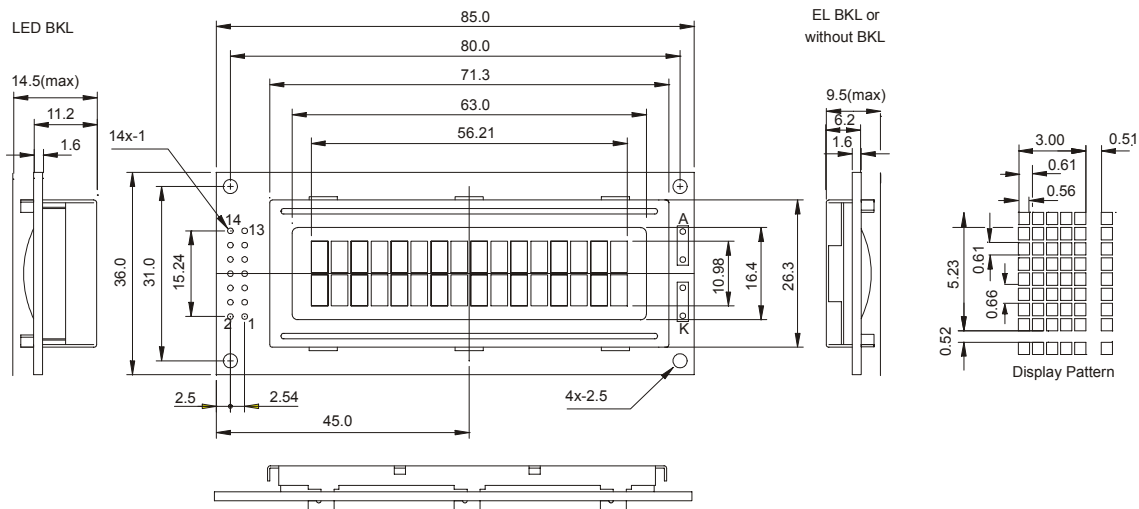
## EL1602D



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

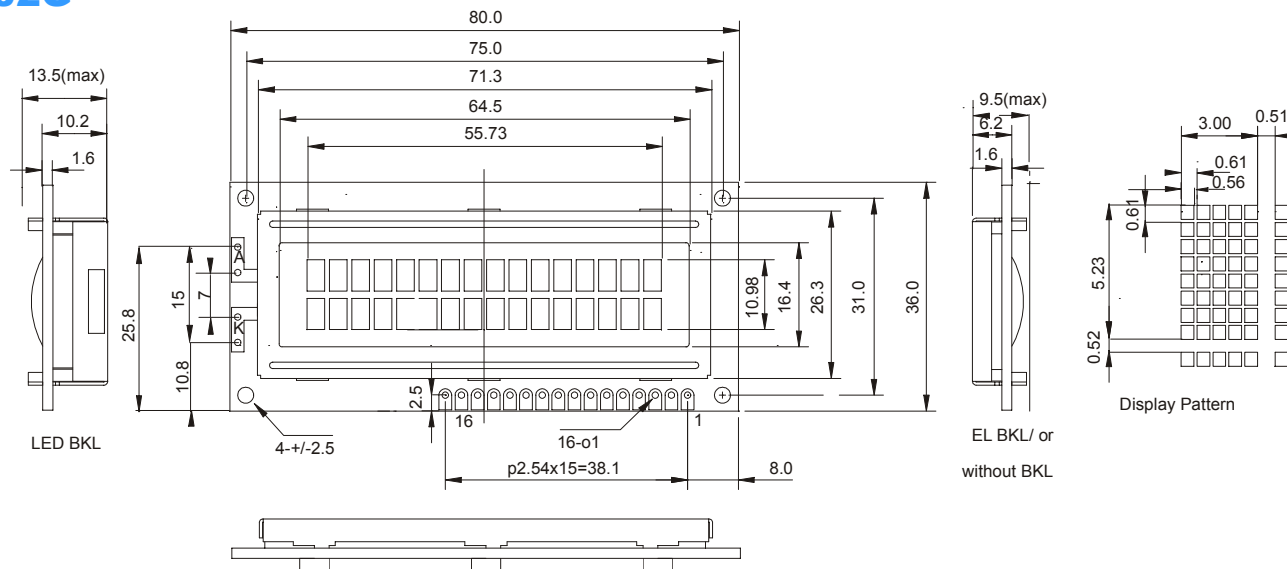
## EL1602E



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLUCTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL1602G



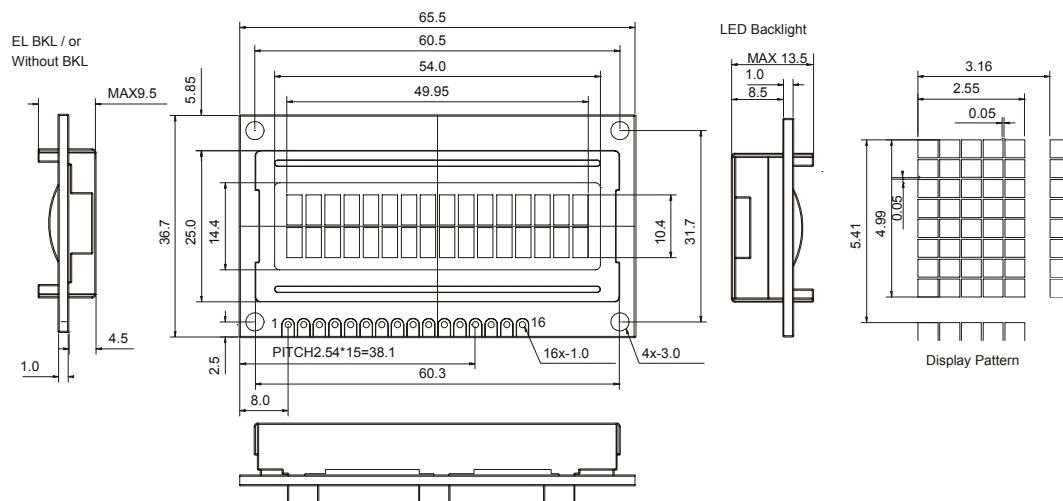
PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLUCTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

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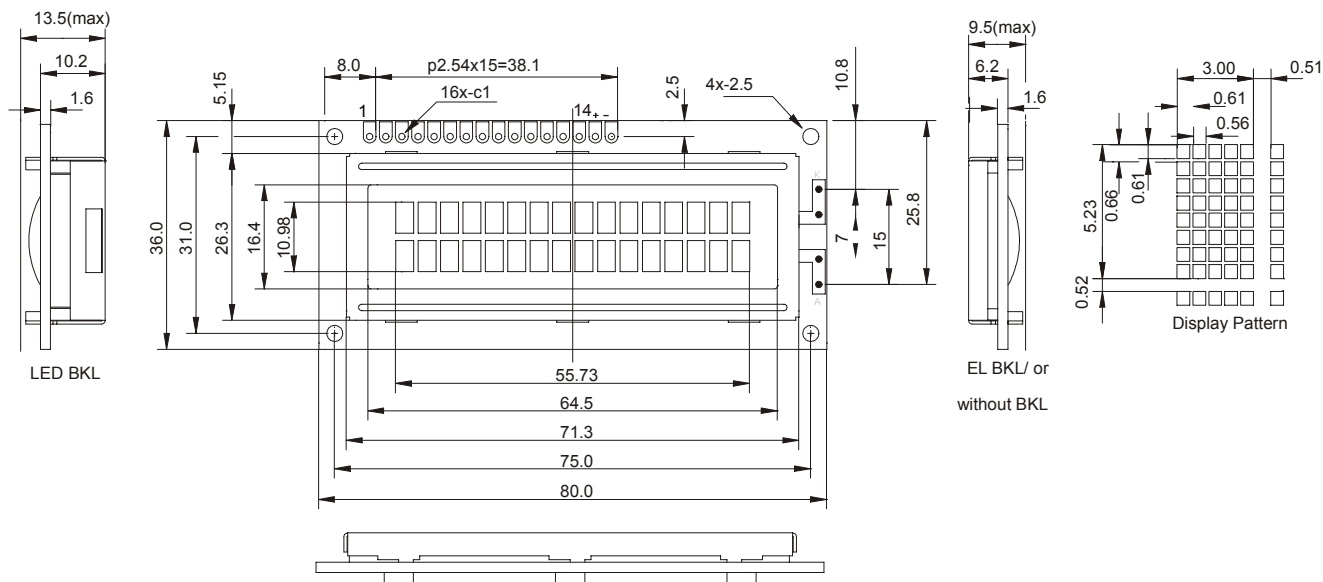
## EL1602H



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL1602K



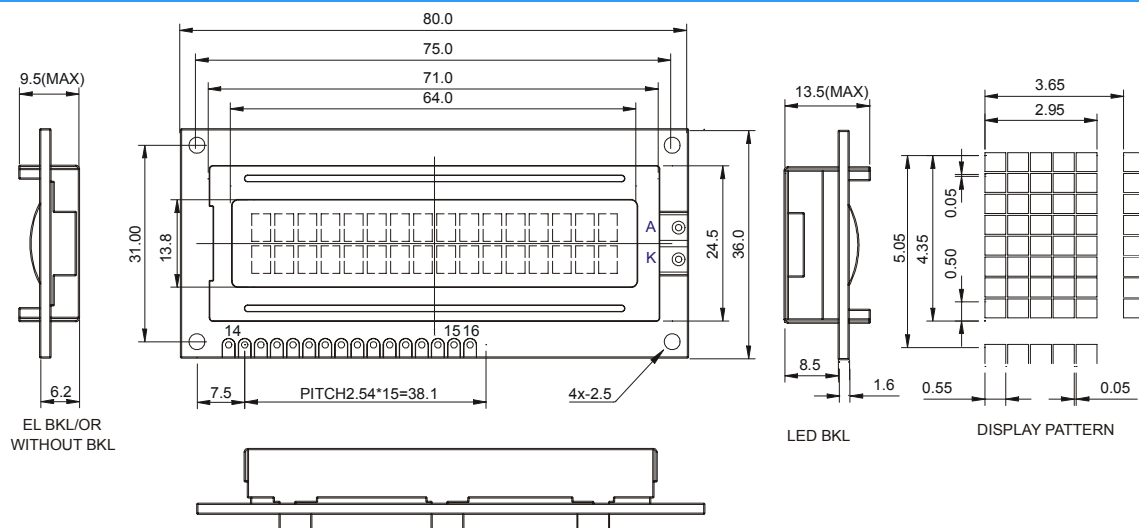
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2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

10/24/2001

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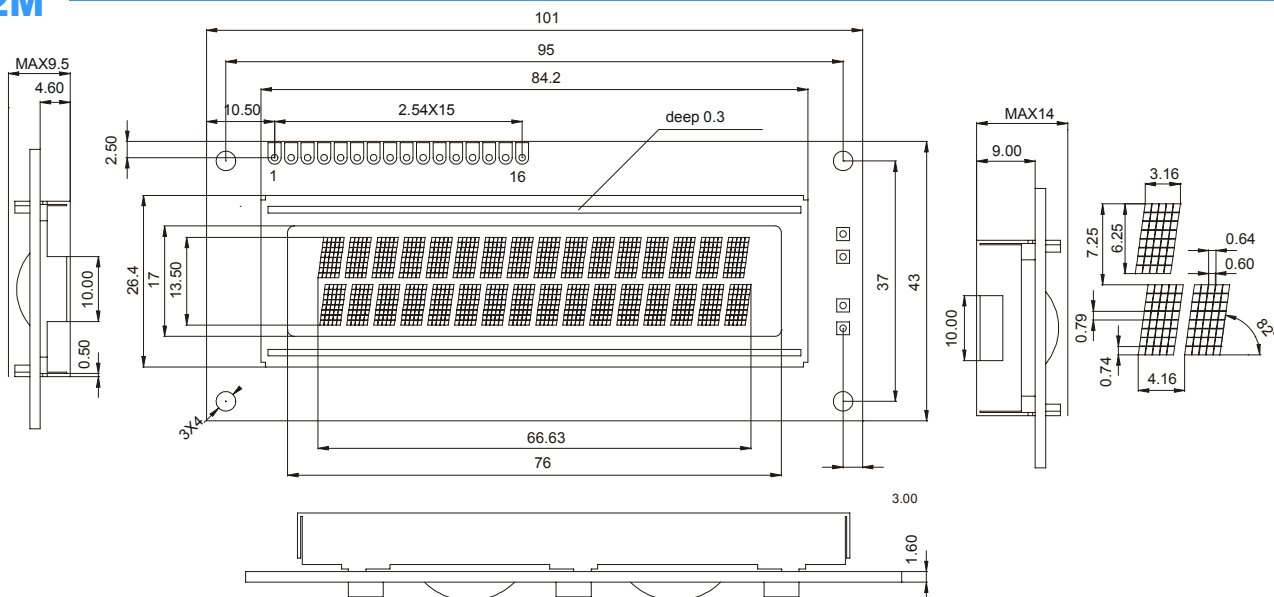
## EL1602L



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL1602M



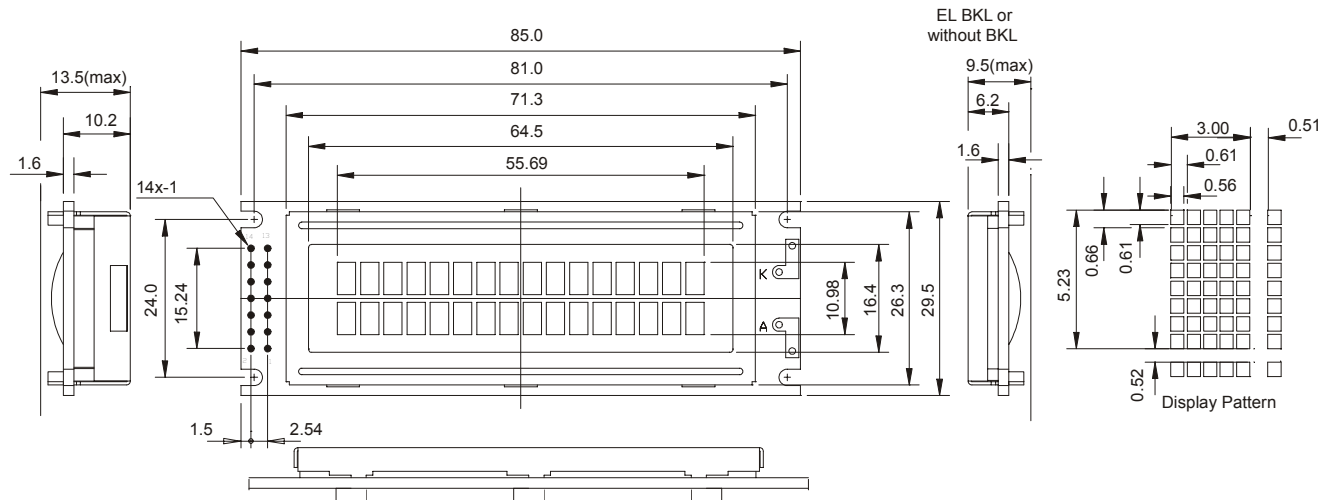
PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

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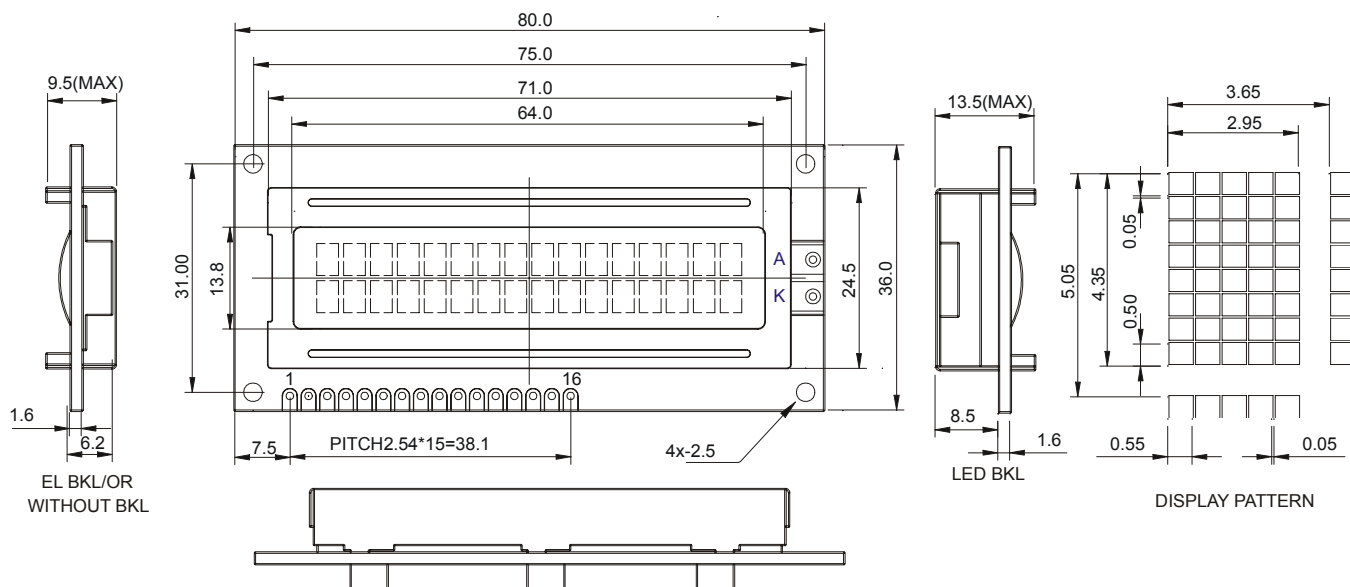
## EL1602N



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSELECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL1602P



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

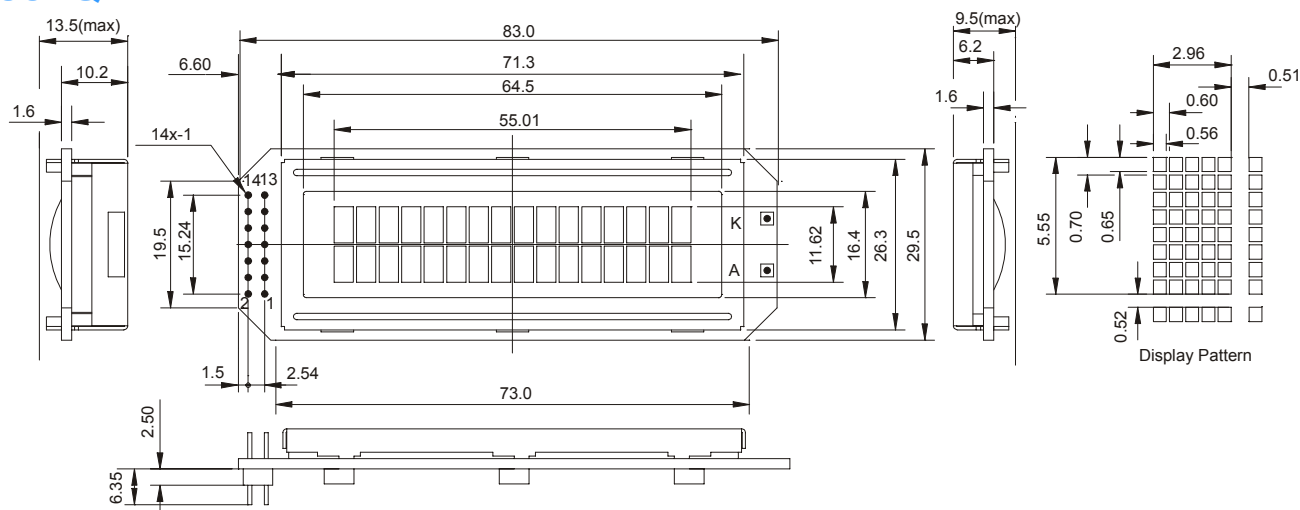
PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSELECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

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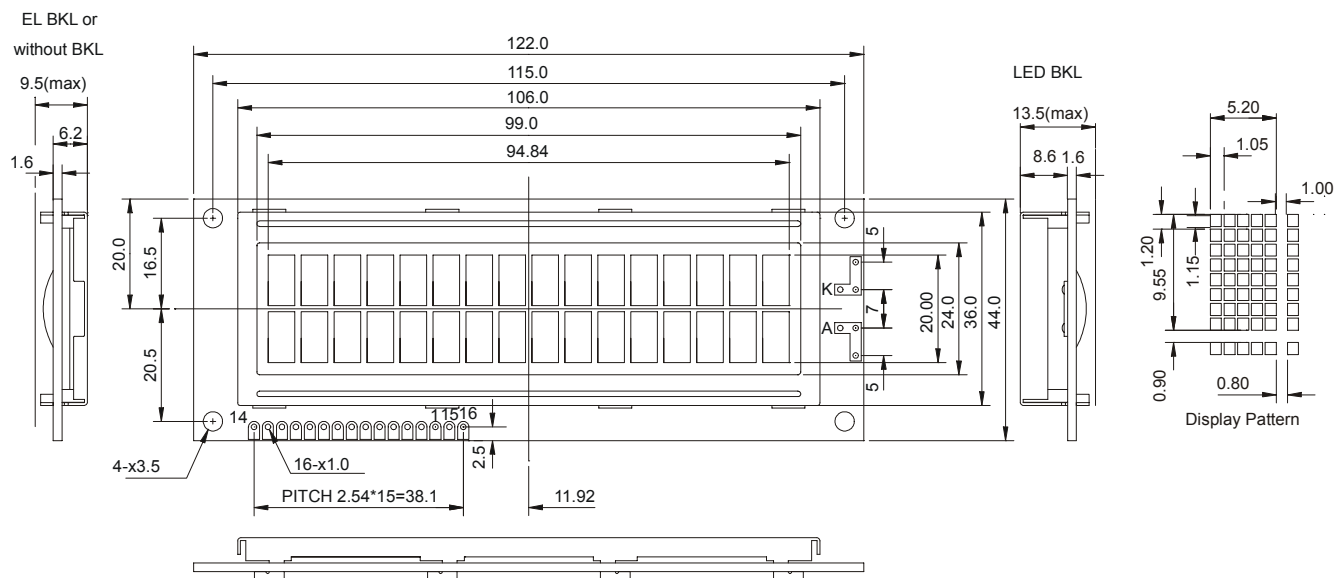
## EL1602Q



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0		
8	DB1		

PERFORMANCE	FEATURES
LC FLUID:	STN
POLARIZER:	TRANSLECTIVE
COLOR:	GRAY
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL1602S

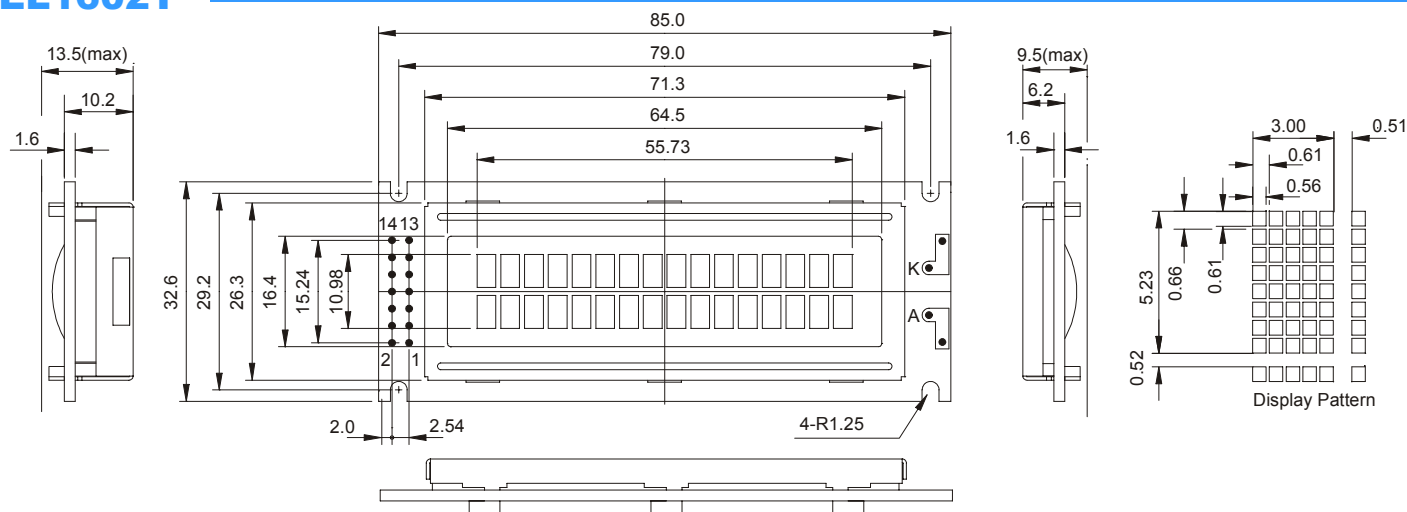


PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

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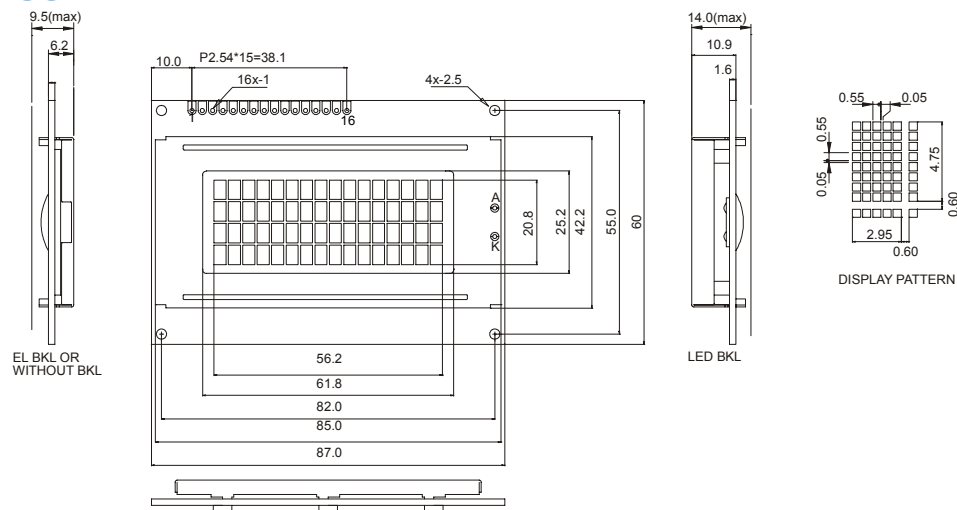
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PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSELECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

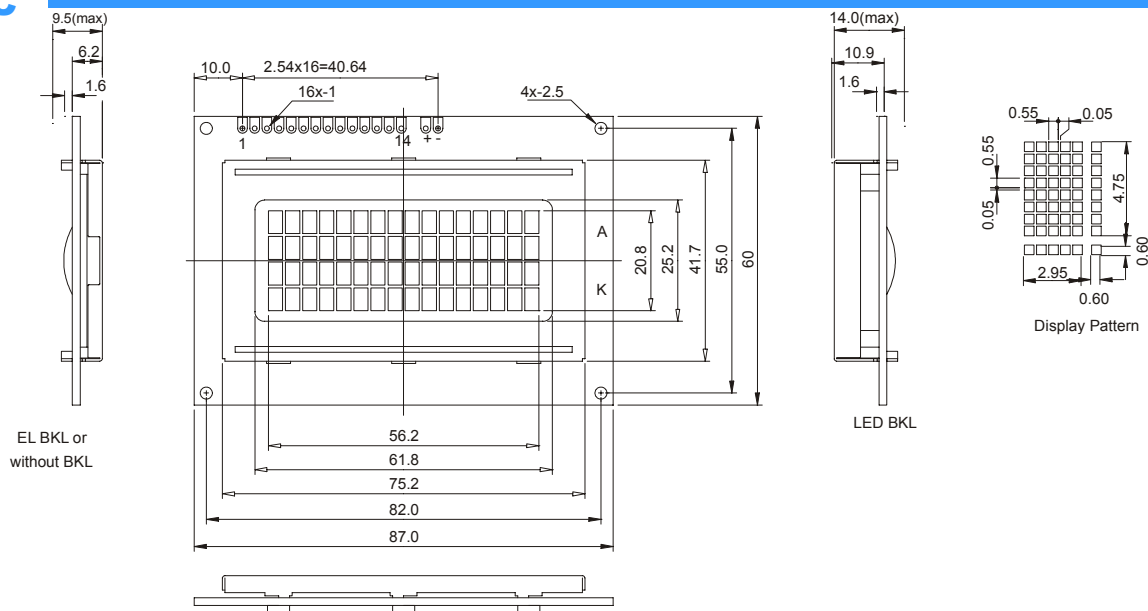
## EL1604B



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

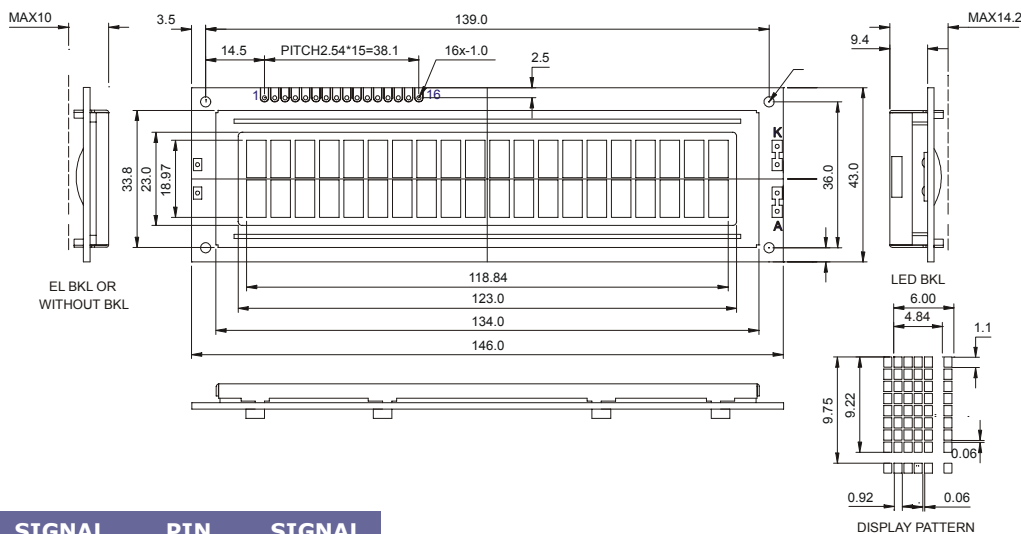
## EL1604C



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

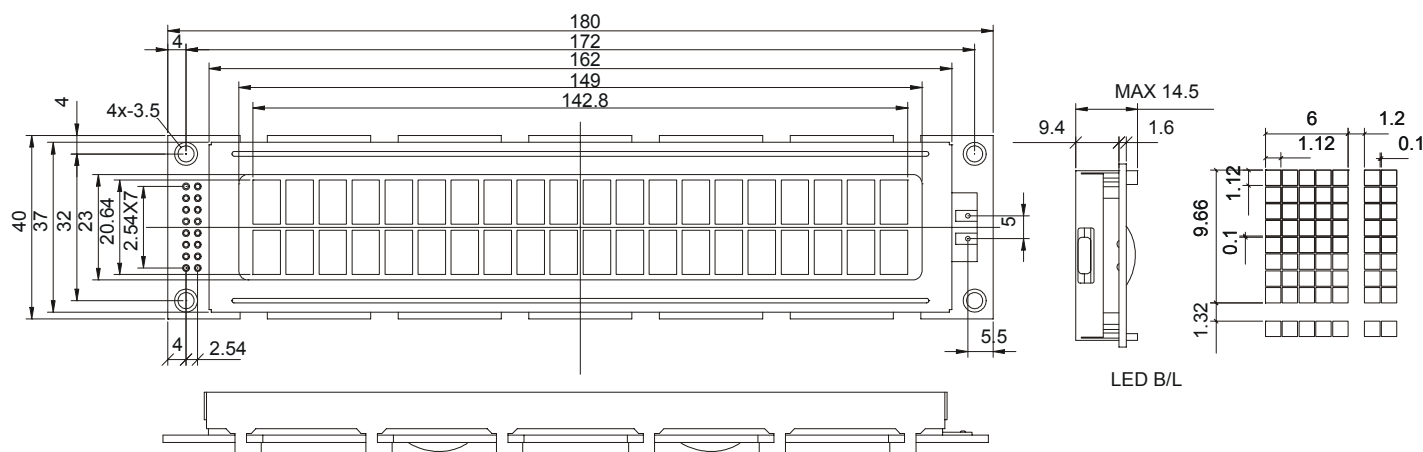
## EL2002A



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLUCTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

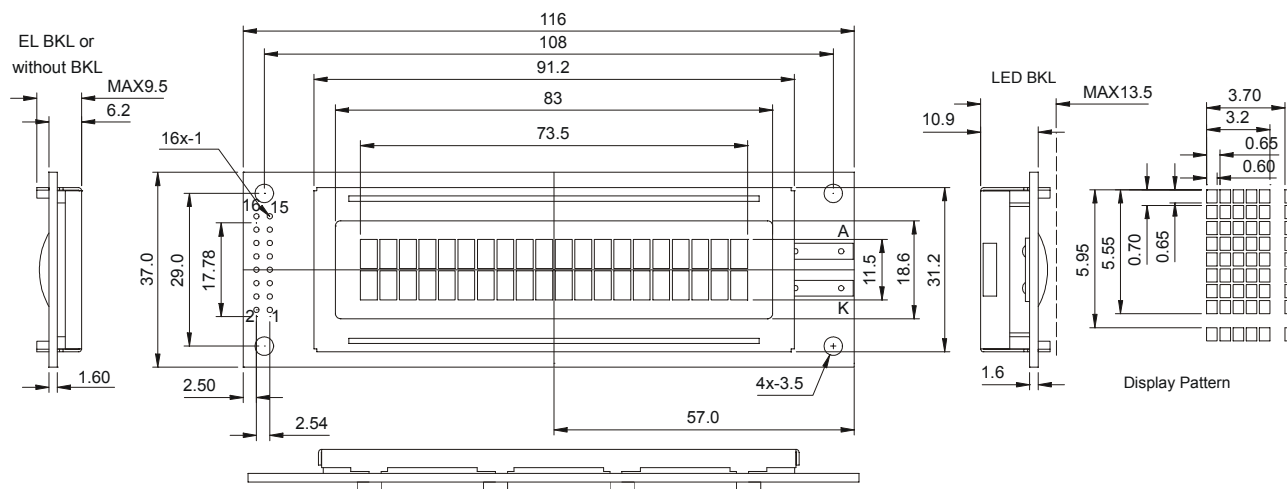
## EL2002B



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLUCTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL2002D

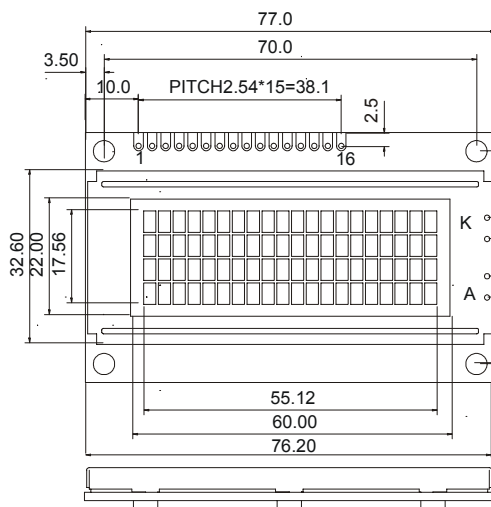
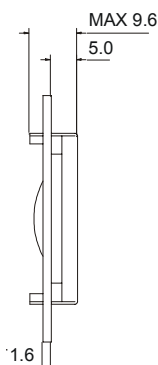


PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

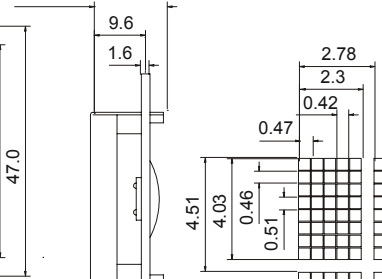
PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSELECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL2004A

EL Backlight  
or without Backlight



LED Backlight  
MAX 14.2

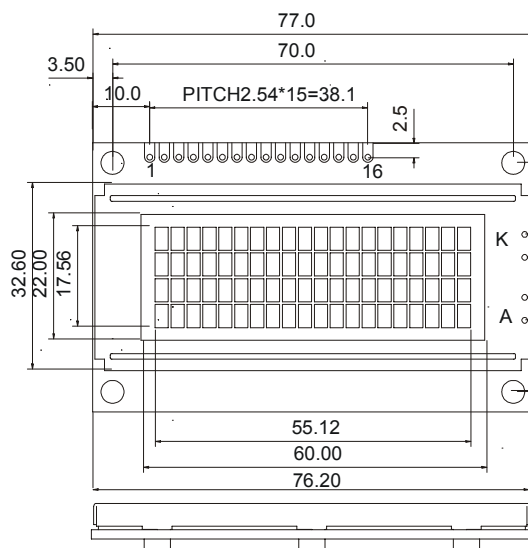
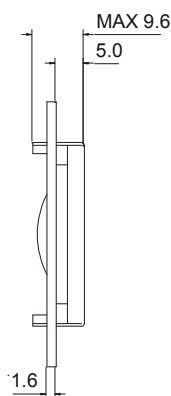


PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

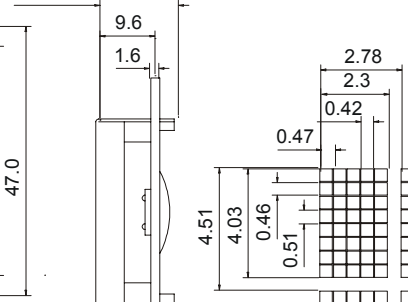
PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL2004D

EL Backlight  
or without Backlight



LED Backlight  
MAX 14.2

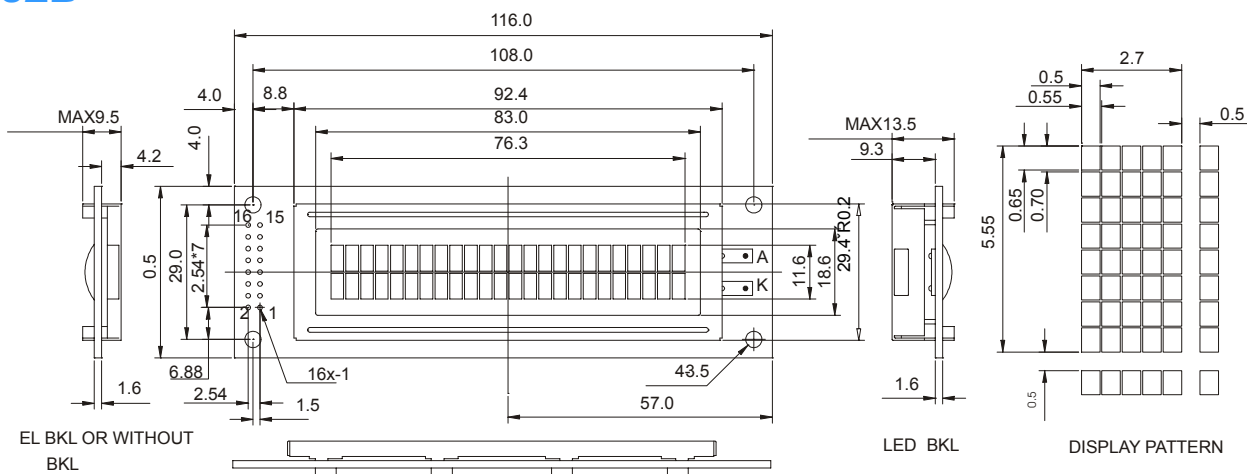


PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLECTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

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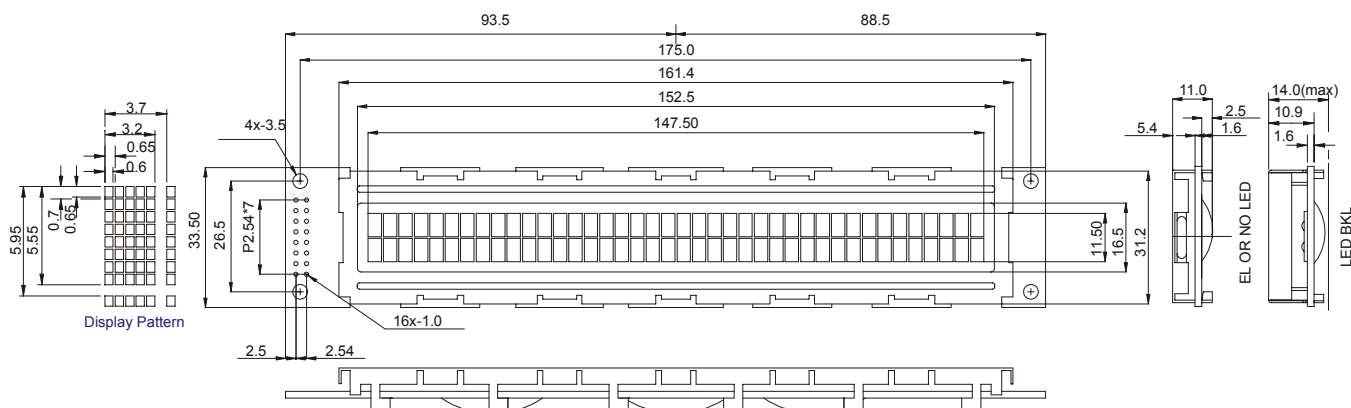
## EL2402B



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLUCTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)

## EL4002A



PIN	SIGNAL	PIN	SIGNAL
1	VSS	9	DB2
2	VDD	10	DB3
3	V0	11	DB4
4	RS	12	DB5
5	R/W	13	DB6
6	E	14	DB7
7	DB0	15	A
8	DB1	16	K

PERFORMANCE	FEATURES
LC FLUID:	TN, STN
POLARIZER:	REFLECTIVE, TRANSLUCTIVE, TRANSMISSIVE
COLOR:	GRAY, YELLOW, BLUE
BACKLIGHT:	LED(YELLOW - GREEN)
TEMPERATURE RANGE:	STANDARD, WIDE
Controller:	KS0066 (OR EQUIVALENT)