



Features

- 5x8 dots with cursor
- Built-in controller KS0066 or equivalent
- +5V power supply
- 1/16 duty cycle
- LED B/L pins: A/K, or 1/2
- Backlight: LED, EL

Optional

- +3V power supply
- Negative voltage

PIN ASSIGNMENT

PIN	SYMBOL	FUNCTION
1	Vss	GND
2	Vdd	+ 5V(+3V option)
3	Vo	Contrast Adjustment
4	RS	H: Data L: Instruction
5	R/ \bar{W}	H/L read/write signal
6	E	H→ L enable signal
7-14	DB0~7	Data bus line

MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	85.0 x 30.0	mm
Viewing Area	66.0 x 16.0	mm
Active Area	56.21 x 11.50	mm
Dot Size	0.56 x 0.66	mm
Character Size	2.96 x 5.56	mm

ELECTRONIC CHARACTERISTICS

ITEM	SYMBOL	CONDITION	TYPICAL VALUE	UNIT
Input Voltage	Vdd	25°C	5.0	V
Supply Current	Idd	Vdd=+5V	1.2	mA
LCD Driving Voltage	Vdd-Vo	25°C	4.0	V
LED Forward Voltage	Vf	25°C	4.2	V
LED Forward Current(edge)	If	25°C	20	mA
LED Forward Current(array)	If	25°C	100	mA
EL Power Supply	Vel	Vel= 110Vac/400Hz		Vrms

PART NUMBER SYSTEM

N	C	1602	A	-	Y	H	Y	-	PS	SPECIAL CODE
1	2	3	4		5	6	7		8	9

1. BRAND NAME

N	NEWTEC DISPLAY CO., LTD.
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2. DISPLAY TYPE

B	Graphic	P	PLED
C	Character	R	CSTN
F	TFT	S	Seven-segment
L	OLED	T	TAB
O	COG		

3. NUMBER OF PIXELS

Character Module	Characters per line × Lines
Graphic Module	Row Dots × Column Dots

4. SERIAL NUMBER

A~Z	Module Serial Number
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5. LCD MODE

	TN	STN		FSTN	CSTN	TFT
Positive	T	G	Gray	F	R	C
		Y	Y/G			
Negative	N	B	Blue	M		

6. LCD POLARIZER

	Normal temperature		Wide temperature	
	6H	12H	6H	12H
Reflective	A	D	G	J
Transflective	B	E	H	K
Transmissive	C	F	I	L

7. BACKLIGHT

NONE	N	No Backlight
EL	U	Blue Green
	H	White
LED	A	Amber
	B	Blue
	E	Yellow/Green Edge
	G	Green
	R	Red
	W	White
	Y	Yellow/Green Array
CCFL	C	White

8. IC FONT (Character Module)

Cyrillic/English	TS
Chinese/English	CB (BIG 5) ,SB (GB), CS (BIG5 + GB + Others)
Japanese/English	PN, PS, PM
European/English	RN, RS, MS, MM

9. SPECIAL CODE

A	Anti-glare
X	Without Negative Voltage Output
N	With Negative Voltage output
M	Negative Voltage + Temperature Compensation
H	Touch panel
B	Positive Voltage (TAB)
W	Without Positive Voltage (TAB and PLED only)
T	Super Wide Temperature